



# Labeling systems



## PRODUCT APPROVALS



### Rail vehicles

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



### Automotive industry

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



### Public buildings and institutions

Product approvals for media conducting systems (electricity, air, water), supply, control, networks, warning and signalling units



### Air, water, road transport

Product approvals for  
Aircraft: media-conducting systems, electric, hydraulic  
Water craft: Electro, hydraulic, pneumatic  
Street vehicles: Bus, lorry, special vehicles



### Mechanical engineering

## SPECIFICATIONS



Temperature range



Material



Fire classification UL 94



Additional information



Adhesive

## LABELING



Part is **halogen free**



Part is **UV-resistant**

## INSTALLATION METHOD



### Sleeve system

Mounting by sliding sleeve over product



### Direct labeling system

Direct slide-in mounting



### Cable tie system with sleeves

Mounting the sleeve with cable ties



### Cable tie system label

Mounting the labels with cable ties



### Clamping system

Mounting the sleeve with a clamping base



### Self-locking system

Self-clamping base used to mount holder



### Adhesive system

Label glued into place



### Snap-fit system

Label snapped into place



### Strip system

Strip snapped into place



### Riveting system

Label riveted into place



### Screw assembly system

Mounting the label with screws

## LABELING TECHNOLOGY



Inscription with **plotter**



Inscription with **hand pen**



Inscription with **Office laser printer**



Inscription via **engraving**



Inscription with **matrix printer**



Inscription with **Pulsar laser**



Inscription with **thermal lamination system**



Inscription with **inkjet printer**



**Pre-inscribed** label



**Heat-shrink tube** labeling

## LABELING SYSTEMS

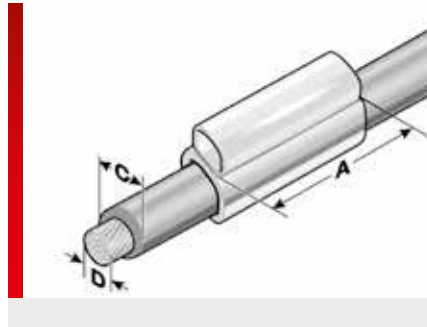
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## Single wire, cable, and conduit labeling

## KT label sleeve (standard sleeve)



### PRODUCT INFORMATION

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

- 7 sizes are available for wire cross sections from 0.22 – 120 mm<sup>2</sup> (AWG approx. 24 – 4/0).
- The sleeves come in different lengths.

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

### SPECIFICATIONS

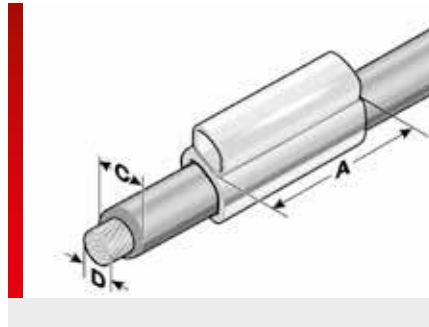
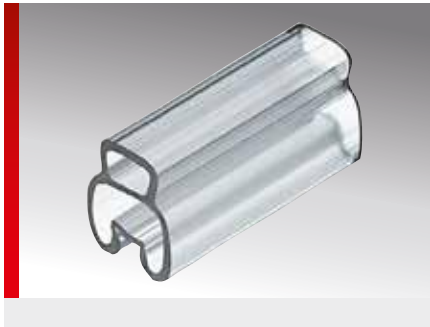
|                                                                                       |                          |
|---------------------------------------------------------------------------------------|--------------------------|
|    | -40.00 – 140 °F          |
|    | Polyvinyl chloride (PVC) |
|    | V0                       |
|    | Standard label sleeve    |
|  |                          |

| Type                                                              | Order No. | Application range<br>from - to<br>Ø in (C) | Wire cross section<br>from - to<br>in <sup>2</sup> (D) | Recommended<br>label<br>plate | No.<br>idents<br>BK23 / BK30 | Pack<br>qty. |
|-------------------------------------------------------------------|-----------|--------------------------------------------|--------------------------------------------------------|-------------------------------|------------------------------|--------------|
| <b>0.39 in (10 mm) sleeve length (A), single line inscription</b> |           |                                            |                                                        |                               |                              |              |
| KT 0/10                                                           | 86201010  | 0.05 – 0.08                                | 0.01 – 0.02                                            | KS 4/10                       | 4 / 3                        | 2000         |
| KT 1/10                                                           | 86201012  | 0.07 – 0.10                                | 0.02 – 0.04                                            | KS 4/10                       | 4 / 3                        | 2000         |
| KT 2/10                                                           | 86201014  | 0.10 – 0.16                                | 0.03 – 0.10                                            | KS 4/10                       | 4 / 3                        | 2000         |
| KT 3/10                                                           | 86201016  | 0.16 – 0.26                                | 0.10 – 0.24                                            | KS 4/10                       | 4 / 3                        | 1000         |
| KT 4/10                                                           | 86201018  | 0.24 – 0.39                                | 0.39 – 0.98                                            | KS 4/10                       | 4 / 3                        | 1000         |
| KT 5/10                                                           | 86201020  | 0.35 – 0.59                                | 0.98 – 1.97                                            | KS 4/10                       | 4 / 3                        | 1000         |
| KT 6/10                                                           | 86201022  | 0.59 – 0.91                                | 1.97 – 4.72                                            | KS 4/10                       | 4 / 3                        | 500          |
| <b>0.47 in (12 mm) sleeve length (A), single line inscription</b> |           |                                            |                                                        |                               |                              |              |
| KT 0/12                                                           | 86201210  | 0.05 – 0.08                                | 0.01 – 0.02                                            | KS 4/12                       | 5 / 4                        | 2000         |
| KT 1/12                                                           | 86201212  | 0.07 – 0.10                                | 0.02 – 0.04                                            | KS 4/12                       | 5 / 4                        | 2000         |
| KT 2/12                                                           | 86201214  | 0.10 – 0.16                                | 0.03 – 0.10                                            | KS 4/12                       | 5 / 4                        | 2000         |
| KT 3/12                                                           | 86201216  | 0.16 – 0.26                                | 0.10 – 0.24                                            | KS 4/12                       | 5 / 4                        | 1000         |
| KT 4/12                                                           | 86201218  | 0.24 – 0.39                                | 0.39 – 0.98                                            | KS 4/12                       | 5 / 4                        | 1000         |
| KT 5/12                                                           | 86201220  | 0.35 – 0.59                                | 0.98 – 1.97                                            | KS 4/12                       | 5 / 4                        | 1000         |
| KT 6/12                                                           | 86201222  | 0.59 – 0.91                                | 1.97 – 4.72                                            | KS 4/12                       | 5 / 4                        | 500          |
| <b>0.59 in (15 mm) sleeve length (A), single line inscription</b> |           |                                            |                                                        |                               |                              |              |
| KT 0/15                                                           | 86201510  | 0.05 – 0.08                                | 0.01 – 0.02                                            | KS 4/15                       | 6 / 5                        | 2000         |
| KT 1/15                                                           | 86201512  | 0.07 – 0.10                                | 0.02 – 0.04                                            | KS 4/15                       | 6 / 5                        | 2000         |
| KT 2/15                                                           | 86201514  | 0.10 – 0.16                                | 0.03 – 0.10                                            | KS 4/15                       | 6 / 5                        | 2000         |
| KT 3/15                                                           | 86201516  | 0.16 – 0.26                                | 0.10 – 0.24                                            | KS 4/15                       | 6 / 5                        | 1000         |
| KT 4/15                                                           | 86201518  | 0.24 – 0.39                                | 0.39 – 0.98                                            | KS 4/15                       | 6 / 5                        | 1000         |
| KT 5/15                                                           | 86201520  | 0.35 – 0.59                                | 0.98 – 1.97                                            | KS 4/15                       | 6 / 5                        | 1000         |

## KT label sleeve (standard sleeve) (Continued...)

| Type                                                                        | Order No. | Application range<br>from - to<br>Ø in (C) | Wire cross section<br>from - to<br>in² (D) | Recommended<br>label<br>plate | No.<br>idents<br>BK23 / BK30 | Pack<br>qty. |
|-----------------------------------------------------------------------------|-----------|--------------------------------------------|--------------------------------------------|-------------------------------|------------------------------|--------------|
| KT 6/15                                                                     | 86201522  | 0.59 – 0.91                                | 1.97 – 4.72                                | KS 4/15                       | 6 / 5                        | 500          |
| <b>0.71 in (18 mm) sleeve length (A), single line inscription</b>           |           |                                            |                                            |                               |                              |              |
| KT 0/18                                                                     | 86201810  | 0.05 – 0.08                                | 0.01 – 0.02                                | KS 4/18                       | 7 / 6                        | 2000         |
| KT 1/18                                                                     | 86201812  | 0.07 – 0.10                                | 0.02 – 0.04                                | KS 4/18                       | 7 / 6                        | 2000         |
| KT 2/18                                                                     | 86201814  | 0.10 – 0.16                                | 0.03 – 0.10                                | KS 4/18                       | 7 / 6                        | 2000         |
| KT 3/18                                                                     | 86201816  | 0.16 – 0.26                                | 0.10 – 0.24                                | KS 4/18                       | 7 / 6                        | 1000         |
| KT 4/18                                                                     | 86201818  | 0.24 – 0.39                                | 0.39 – 0.98                                | KS 4/18                       | 7 / 6                        | 1000         |
| KT 5/18                                                                     | 86201820  | 0.35 – 0.59                                | 0.98 – 1.97                                | KS 4/18                       | 7 / 6                        | 750          |
| KT 6/18                                                                     | 86201822  | 0.59 – 0.91                                | 1.97 – 4.72                                | KS 4/18                       | 7 / 6                        | 300          |
| <b>0.91 in (23 mm) sleeve length (A), single line inscription</b>           |           |                                            |                                            |                               |                              |              |
| KT 0/23                                                                     | 86202310  | 0.05 – 0.08                                | 0.01 – 0.02                                | KS 4/23                       | 10 / 7                       | 2000         |
| KT 1/23                                                                     | 86202312  | 0.07 – 0.10                                | 0.02 – 0.04                                | KS 4/23                       | 10 / 7                       | 2000         |
| KT 2/23                                                                     | 86202314  | 0.10 – 0.16                                | 0.03 – 0.10                                | KS 4/23                       | 10 / 7                       | 1000         |
| KT 3/23                                                                     | 86202316  | 0.16 – 0.26                                | 0.10 – 0.24                                | KS 4/23                       | 10 / 7                       | 1000         |
| KT 4/23                                                                     | 86202318  | 0.24 – 0.39                                | 0.39 – 0.98                                | KS 4/23                       | 10 / 7                       | 1000         |
| KT 5/23                                                                     | 86202320  | 0.35 – 0.59                                | 0.98 – 1.97                                | KS 4/23                       | 10 / 7                       | 500          |
| KT 6/23                                                                     | 86202322  | 0.59 – 0.91                                | 1.97 – 4.72                                | KS 4/23                       | 10 / 7                       | 250          |
| <b>1.18 in (30 mm) sleeve length (A), single line inscription</b>           |           |                                            |                                            |                               |                              |              |
| KT 0/30                                                                     | 86203010  | 0.05 – 0.08                                | 0.01 – 0.02                                | KS 4/30                       | 13 / 10                      | 1000         |
| KT 1/30                                                                     | 86203012  | 0.07 – 0.10                                | 0.02 – 0.04                                | KS 4/30                       | 13 / 10                      | 1500         |
| KT 2/30                                                                     | 86203014  | 0.10 – 0.16                                | 0.03 – 0.10                                | KS 4/30                       | 13 / 10                      | 1000         |
| KT 3/30                                                                     | 86203016  | 0.16 – 0.26                                | 0.10 – 0.24                                | KS 4/30                       | 13 / 10                      | 1000         |
| KT 4/30                                                                     | 86203018  | 0.24 – 0.39                                | 0.39 – 0.98                                | KS 4/30                       | 13 / 10                      | 500          |
| KT 5/30                                                                     | 86203020  | 0.35 – 0.59                                | 0.98 – 1.97                                | KS 4/30                       | 13 / 10                      | 500          |
| KT 6/30                                                                     | 86203022  | 0.59 – 0.91                                | 1.97 – 4.72                                | KS 4/30                       | 13 / 10                      | 200          |
| <b>0.79 in (20 mm) sleeve length (A), single and multi-line inscription</b> |           |                                            |                                            |                               |                              |              |
| KT 2/20x9                                                                   | 86202050  | 0.1 – 0.16                                 | 0.03 – 0.10                                | KS0 20x9                      |                              | 1000         |
| <b>1.38 in (35 mm) sleeve length (A), single and multi-line inscription</b> |           |                                            |                                            |                               |                              |              |
| KT 2/35x9                                                                   | 86203550  | 0.10 – 0.16                                | 0.03 – 0.10                                | KS0 35x9                      |                              | 500          |
| <b>2.76 in (70 mm) sleeve length (A), single line inscription</b>           |           |                                            |                                            |                               |                              |              |
| KT 2/70                                                                     | 86207014  | 0.10 – 0.16                                | 0.03 – 0.10                                | KS 4/30-70                    | 30 / 23                      | 500          |
| KT 3/70                                                                     | 86207016  | 0.16 – 0.26                                | 0.10 – 0.24                                | KS 4/30-70                    | 30 / 23                      | 400          |
| * Single wire, type H05/07V-K                                               |           |                                            |                                            |                               |                              |              |

## KTH label sleeve (halogen-free)



### PRODUCT INFORMATION

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

- Wire cross sections from 0.01 – 1.38 in<sup>2</sup> (0.22 – 35 mm<sup>2</sup>) (AWG approx. 24 – 2) are available.
- The sleeves come in different lengths.

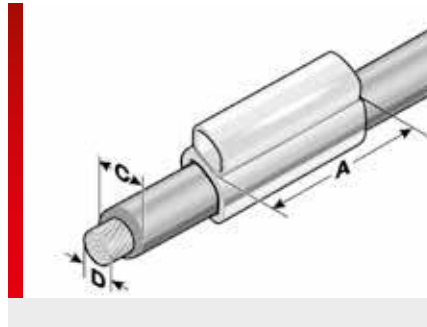
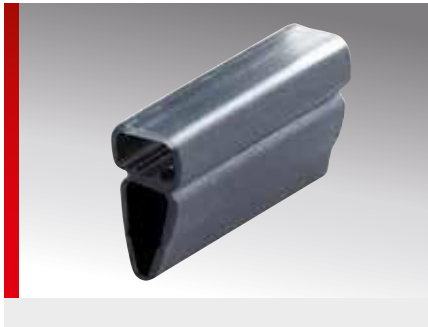
### SPECIFICATIONS

|                                                                                     |                    |
|-------------------------------------------------------------------------------------|--------------------|
|  | -40.00 – 176.00 °F |
|  | EVA                |
|  | HB                 |
|  |                    |
|  |                    |

| Type                                                              | Order No. | Application range<br>from - to<br>Ø in (C) | Wire cross section<br>from - to<br>in <sup>2</sup> (D) | Recommended<br>label<br>plate | No.<br>idents<br>BK23 / BK30 | Pack<br>qty. |
|-------------------------------------------------------------------|-----------|--------------------------------------------|--------------------------------------------------------|-------------------------------|------------------------------|--------------|
| <b>0.47 in (12 mm) sleeve length (A), single line inscription</b> |           |                                            |                                                        |                               |                              |              |
| KTH 0/12                                                          | 86221210  | 0.05 – 0.08                                | 0.02                                                   | KS 4/12                       | 5 / 4                        | 2000         |
| KTH 1/12                                                          | 86221212  | 0.07 – 0.09                                | 0.02                                                   | KS 4/12                       | 5 / 4                        | 2000         |
| KTH 2/12                                                          | 86221214  | 0.10 – 0.13                                | 0.03 – 0.10                                            | KS 4/12                       | 5 / 4                        | 2000         |
| KTH 3/12                                                          | 86221216  | 0.14 – 0.24                                | 0.10 – 0.24                                            | KS 4/12                       | 5 / 4                        | 1000         |
| KTH 4/12                                                          | 86221218  | 0.24 – 0.35                                | 0.39 – 0.63                                            | KS 4/12                       | 5 / 4                        | 1000         |
| <b>0.71 in (18 mm) sleeve length (A), single line inscription</b> |           |                                            |                                                        |                               |                              |              |
| KTH 0/18                                                          | 86221810  | 0.05 – 0.08                                | 0.02                                                   | KS 4/18                       | 7 / 6                        | 2000         |
| KTH 1/18                                                          | 86221812  | 0.07 – 0.09                                | 0.02                                                   | KS 4/18                       | 7 / 6                        | 2000         |
| KTH 2/18                                                          | 86221814  | 0.10 – 0.13                                | 0.03 – 0.10                                            | KS 4/18                       | 7 / 6                        | 2000         |
| KTH 3/18                                                          | 86221816  | 0.14 – 0.24                                | 0.10 – 0.24                                            | KS 4/18                       | 7 / 6                        | 1000         |
| KTH 4/18                                                          | 86221818  | 0.24 – 0.35                                | 0.39 – 0.63                                            | KS 4/18                       | 7 / 6                        | 1000         |
| KTH 5/18                                                          | 86221820  | 0.35 – 0.55                                | 25.0 – 35.0                                            | KS 4/18                       | 7 / 6                        | 500          |
| <b>0.91 in (23 mm) sleeve length (A), single line inscription</b> |           |                                            |                                                        |                               |                              |              |
| KTH 0/23                                                          | 86222310  | 0.05 – 0.08                                | 0.02                                                   | KS 4/23                       | 10 / 7                       | 1000         |
| KTH 1/23                                                          | 86222312  | 0.07 – 0.09                                | 0.02                                                   | KS 4/23                       | 10 / 7                       | 2000         |
| KTH 2/23                                                          | 86222314  | 0.10 – 0.13                                | 0.03 – 0.10                                            | KS 4/23                       | 10 / 7                       | 1000         |
| KTH 3/23                                                          | 86222316  | 0.14 – 0.24                                | 0.10 – 0.24                                            | KS 4/23                       | 10 / 7                       | 1000         |
| KTH 4/23                                                          | 86222318  | 0.24 – 0.35                                | 0.39 – 0.63                                            | KS 4/23                       | 10 / 7                       | 1000         |
| <b>1.18 in (30 mm) sleeve length (A), single line inscription</b> |           |                                            |                                                        |                               |                              |              |
| KTH 3/30                                                          | 86222416  | 0.14 – 0.24                                | 0.10 – 0.24                                            | KS 4/30                       | 13 / 10                      | 1000         |
| KTH 4/30                                                          | 86222418  | 0.24 – 0.35                                | 0.39 – 0.63                                            | KS 4/30                       | 13 / 10                      | 500          |

\* Single wire, type H05/07V-K

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



### PRODUCT INFORMATION

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

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

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

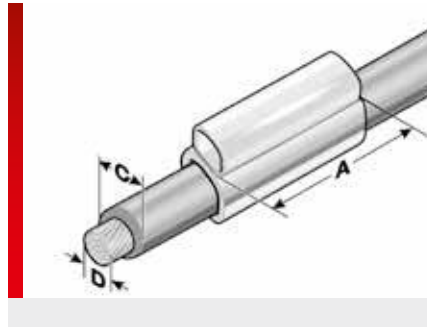
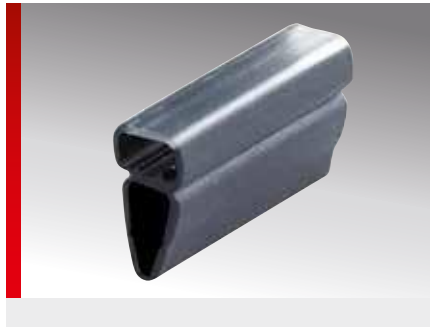
### SPECIFICATIONS

|                                                                                      |                                         |
|--------------------------------------------------------------------------------------|-----------------------------------------|
|   | -40.00 – 212.00 °F<br>short term 320 °F |
|   | TPU                                     |
|   | V0                                      |
|  | Halogen-free                            |



| Type                                                              | Order No. | Application range<br>from - to<br>Ø in (C) | Wire cross section<br>from - to<br>in² (D) | Recommended<br>label<br>plate | No.<br>idents<br>BK23 / BK30 | Pack<br>qty. |
|-------------------------------------------------------------------|-----------|--------------------------------------------|--------------------------------------------|-------------------------------|------------------------------|--------------|
| <b>0.47 in (12 mm) sleeve length (A), single line inscription</b> |           |                                            |                                            |                               |                              |              |
| KTH/Q 0/12                                                        | 86222808  | 0.03 – 0.06                                | 0.02                                       | KS 4/12                       | 5 / 4                        | 2000         |
| KTH/Q 1/12                                                        | 86222810  | 0.06 – 0.09                                | 0.02                                       | KS 4/12                       | 5 / 4                        | 2000         |
| KTH/Q 1.5/12                                                      | 86222811  | 0.06 – 0.13                                | 0.02 – 0.03                                | KS 4/12                       | 5 / 4                        | 2000         |
| KTH/Q 2/12                                                        | 86222812  | 0.09 – 0.18                                | 0.03 – 0.10                                | KS 4/12                       | 5 / 4                        | 2000         |
| KTH/Q 3/12                                                        | 86222814  | 0.15 – 0.24                                | 0.10 – 0.24                                | KS 4/12                       | 5 / 4                        | 1000         |
| KTH/Q 4/12                                                        | 86222817  | 0.22 – 0.39                                | 0.39 – 0.98                                | KS 4/12                       | 5 / 4                        | 1000         |
| KTH/Q 5/12                                                        | 86222818  | 0.31 – 0.47                                | 25.0 – 35.0                                | KS 4/12                       | 5 / 4                        | 500          |
| KTH/Q 6/12                                                        | 86222820  | 0.39 – 0.55                                | 1.97                                       | KS 4/12                       | 5 / 4                        | 500          |
| KTH/Q 6.5/12                                                      | 86222821  | 0.47 – 0.71                                | 2.76 – 3.74                                | KS 4/12                       | 5 / 4                        | 500          |
| <b>0.71 in (18 mm) sleeve length (A), single line inscription</b> |           |                                            |                                            |                               |                              |              |
| KTH/Q 0/18                                                        | 86223008  | 0.03 – 0.06                                | 0.02                                       | KS 4/18                       | 7 / 6                        | 2000         |
| KTH/Q 1/18                                                        | 86223010  | 0.06 – 0.09                                | 0.02                                       | KS 4/18                       | 7 / 6                        | 2000         |
| KTH/Q 1.5/18                                                      | 86223011  | 0.06 – 0.13                                | 0.02 – 0.03                                | KS 4/18                       | 7 / 6                        | 2000         |
| KTH/Q 2/18                                                        | 86223012  | 0.09 – 0.18                                | 0.03 – 0.10                                | KS 4/18                       | 7 / 6                        | 2000         |
| KTH/Q 3/18                                                        | 86223014  | 0.15 – 0.24                                | 0.10 – 0.24                                | KS 4/18                       | 7 / 6                        | 1000         |
| KTH/Q 4/18                                                        | 86223017  | 0.22 – 0.39                                | 0.39 – 0.98                                | KS 4/18                       | 7 / 6                        | 1000         |
| KTH/Q 5/18                                                        | 86223018  | 0.31 – 0.47                                | 25.0 – 35.0                                | KS 4/18                       | 7 / 6                        | 500          |
| KTH/Q 6/18                                                        | 86223020  | 0.39 – 0.55                                | 1.97                                       | KS 4/18                       | 7 / 6                        | 500          |
| KTH/Q 6.5/18                                                      | 86223021  | 0.47 – 0.71                                | 2.76 – 3.74                                | KS 4/18                       | 7 / 6                        | 500          |
| KTH/Q 7/18                                                        | 86223022  | 0.71 – 0.94                                | 4.72 – 5.91                                | KS 4/18                       | 7 / 6                        | 250          |
| KTH/Q 8/18                                                        | 86223024  | 0.91 – 1.18                                | 7.28 – 9.45                                | KS 4/18                       | 7 / 6                        | 250          |

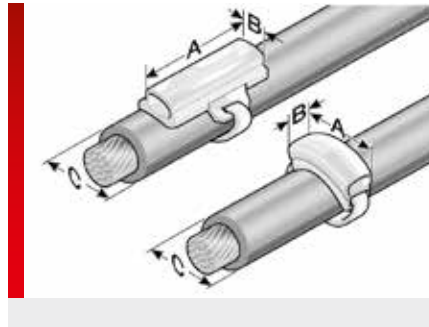
## KTH/Q label sleeve (halogen-free / high packing density) (Continued...)



| Type                                                              | Order No. | Application range<br>from - to<br>Ø in (C) | Wire cross section<br>from - to<br>in <sup>2</sup> (D) | Recommended<br>label<br>plate | No.<br>idents<br>BK23 / BK30 | Pack<br>qty. |
|-------------------------------------------------------------------|-----------|--------------------------------------------|--------------------------------------------------------|-------------------------------|------------------------------|--------------|
| <b>0.91 in (23 mm) sleeve length (A), single line inscription</b> |           |                                            |                                                        |                               |                              |              |
| KTH/Q 0/23                                                        | 86223208  | 0.03 – 0.06                                | 0.02                                                   | KS 4/23                       | 10 / 7                       | 2000         |
| KTH/Q 1/23                                                        | 86223210  | 0.06 – 0.09                                | 0.02                                                   | KS 4/23                       | 10 / 7                       | 2000         |
| KTH/Q 1.5/23                                                      | 86223211  | 0.06 – 0.13                                | 0.02 – 0.03                                            | KS 4/23                       | 10 / 7                       | 2000         |
| KTH/Q 2/23                                                        | 86223212  | 0.09 – 0.18                                | 0.03 – 0.10                                            | KS 4/23                       | 10 / 7                       | 2000         |
| KTH/Q 3/23                                                        | 86223214  | 0.15 – 0.24                                | 0.10 – 0.24                                            | KS 4/23                       | 10 / 7                       | 1000         |
| KTH/Q 4/23                                                        | 86223217  | 0.22 – 0.39                                | 0.39 – 0.98                                            | KS 4/23                       | 10 / 7                       | 1000         |
| KTH/Q 5/23                                                        | 86223218  | 0.31 – 0.47                                | 25.0 – 35.0                                            | KS 4/23                       | 10 / 7                       | 500          |
| KTH/Q 6/23                                                        | 86223220  | 0.39 – 0.55                                | 1.97                                                   | KS 4/23                       | 10 / 7                       | 500          |
| KTH/Q 6.5/23                                                      | 86223221  | 0.47 – 0.71                                | 2.76 – 3.74                                            | KS 4/23                       | 10 / 7                       | 500          |
| KTH/Q 7/23                                                        | 86223222  | 0.71 – 0.94                                | 4.72 – 5.91                                            | KS 4/23                       | 10 / 7                       | 250          |
| KTH/Q 8/23                                                        | 86223224  | 0.91 – 1.18                                | 7.28 – 9.45                                            | KS 4/23                       | 10 / 7                       | 250          |
| <b>1.18 in (30 mm) sleeve length (A), single line inscription</b> |           |                                            |                                                        |                               |                              |              |
| KTH/Q 0/30                                                        | 86223408  | 0.03 – 0.06                                | 0.02                                                   | KS 4/30                       | 13 / 10                      | 2000         |
| KTH/Q 1/30                                                        | 86223410  | 0.06 – 0.09                                | 0.02                                                   | KS 4/30                       | 13 / 10                      | 2000         |
| KTH/Q 1.5/30                                                      | 86223411  | 0.06 – 0.13                                | 0.02 – 0.03                                            | KS 4/30                       | 13 / 10                      | 2000         |
| KTH/Q 2/30                                                        | 86223412  | 0.09 – 0.18                                | 0.03 – 0.10                                            | KS 4/30                       | 13 / 10                      | 2000         |
| KTH/Q 3/30                                                        | 86223414  | 0.15 – 0.24                                | 0.10 – 0.24                                            | KS 4/30                       | 13 / 10                      | 1000         |
| KTH/Q 4/30                                                        | 86223417  | 0.22 – 0.39                                | 0.39 – 0.98                                            | KS 4/30                       | 13 / 10                      | 1000         |
| KTH/Q 5/30                                                        | 86223418  | 0.31 – 0.47                                | 25.0 – 35.0                                            | KS 4/30                       | 13 / 10                      | 500          |
| KTH/Q 6/30                                                        | 86223420  | 0.39 – 0.55                                | 1.97                                                   | KS 4/30                       | 13 / 10                      | 500          |
| KTH/Q 6.5/30                                                      | 86223421  | 0.47 – 0.71                                | 2.76 – 3.74                                            | KS 4/30                       | 13 / 10                      | 500          |
| KTH/Q 7/30                                                        | 86223422  | 0.71 – 0.94                                | 4.72 – 5.91                                            | KS 4/30                       | 13 / 10                      | 250          |
| KTH/Q 8/30                                                        | 86223424  | 0.91 – 1.18                                | 7.28 – 9.45                                            | KS 4/30                       | 13 / 10                      | 200          |
| <b>1.18 in (30 mm) sleeve length (A), notched</b>                 |           |                                            |                                                        |                               |                              |              |
| KTH/Q 1/30A                                                       | 86223482  | 0.06 – 0.09                                | 0.02                                                   | KS 4/30                       | 13 / 10                      | 2000         |
| KTH/Q 2/30A                                                       | 86223484  | 0.09 – 0.18                                | 0.03 – 0.10                                            | KS 4/30                       | 13 / 10                      | 2000         |
| KTH/Q 3/30A                                                       | 86223486  | 0.15 – 0.23                                | 0.10 – 0.24                                            | KS 4/30                       | 13 / 10                      | 500          |

\* Single wire, type H05/07V-K

## KM Label holder (standard holder)



### PRODUCT INFORMATION

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

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

### SPECIFICATIONS

|                                                                                       |                          |
|---------------------------------------------------------------------------------------|--------------------------|
|    | -40.00 – 140 °F          |
|    | Polyvinyl chloride (PVC) |
|    | V0                       |
|    | Standard label holder    |
|  |                          |

| Type                                                                           | Order No. | Color       | Length in (A) | Width in (B) | Recommended label plate | No. idents BK23 / BK30 | Cable ties max. width inch | Recommended min. Diameter in (C) | Pack qty. |
|--------------------------------------------------------------------------------|-----------|-------------|---------------|--------------|-------------------------|------------------------|----------------------------|----------------------------------|-----------|
| <b>Labeling across the line/the hose, single line of print</b>                 |           |             |               |              |                         |                        |                            |                                  |           |
| KM 3                                                                           | 86321018  | Transparent | 0.63          | 0.16         | KS 4/12                 | 6 / 5                  | 0.20                       | 0.20                             | 2000      |
| <b>Labeling lengthwise along the cable/conduit, one line of print</b>          |           |             |               |              |                         |                        |                            |                                  |           |
| KM 4/12                                                                        | 86321015  | Transparent | 0.47          | 0.16         | KS 4/x                  | 5 / 3                  | 0.20                       | 0.20                             | 2000      |
| KM 4/18                                                                        | 86321019  | Transparent | 0.71          | 0.16         | KS 4/x                  | 7 / 6                  | 0.20                       | 0.20                             | 2000      |
| KM 4/23                                                                        | 86321020  | Transparent | 0.91          | 0.16         | KS 4/x                  | 10 / 7                 | 0.20                       | 0.20                             | 1000      |
| KM 4/31                                                                        | 86321024  | Transparent | 1.22          | 0.16         | KS 4/x                  | 13 / 10                | 0.20                       | 0.20                             | 1000      |
| <b>Labeling lengthwise along the cable/conduit, one or more lines of print</b> |           |             |               |              |                         |                        |                            |                                  |           |
| KM 9/20                                                                        | 86321040  | Transparent | 0.79          | 0.35         | KSO 20x9                |                        | 0.20                       | 0.39                             | 1000      |
| KM 9/35                                                                        | 86321042  | Transparent | 1.38          | 0.35         | KSO 35x9                |                        | 0.20                       | 0.39                             | 500       |
| KM 9/70                                                                        | 86321045  | Transparent | 2.76          | 0.35         | KSO 70x9                |                        | 0.20                       | 0.39                             | 250       |
| KM 15/27                                                                       | 86321056  | Transparent | 1.06          | 0.59         | KS 15/27                |                        | 0.20                       | 0.55                             | 500       |
| KM 15/49                                                                       | 86321058  | Transparent | 1.93          | 0.59         | KS 15/49                |                        | 0.20                       | 0.55                             | 250       |
| KM 15/67                                                                       | 86321060  | Transparent | 2.64          | 0.59         | KS 15/67                |                        | 0.20                       | 0.55                             | 125       |
| <b>Pre-configured label holder, equipped with KB 55 cable ties</b>             |           |             |               |              |                         |                        |                            |                                  |           |
| KKM 4/12                                                                       | 86321048  | Transparent | 0.47          | 0.16         | KS 4/x                  | 5 / 4                  | 0.20                       | 0.20                             | 250       |
| KKM 4/23                                                                       | 86321050  | Transparent | 0.91          | 0.16         | KS 4/x                  | 10 / 7                 | 0.20                       | 0.20                             | 250       |
| KKM 9/20                                                                       | 86321052  | Transparent | 0.79          | 0.35         | KSO 20x9                |                        | 0.20                       | 0.39                             | 250       |
| KKM 9/35                                                                       | 86321054  | Transparent | 1.38          | 0.35         | KSO 35x9                |                        | 0.20                       | 0.39                             | 250       |

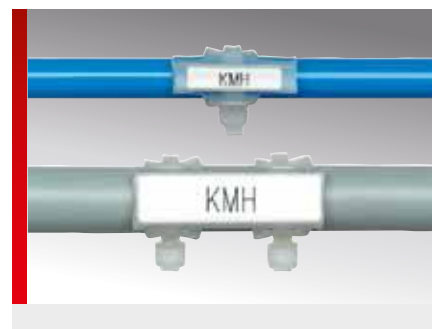
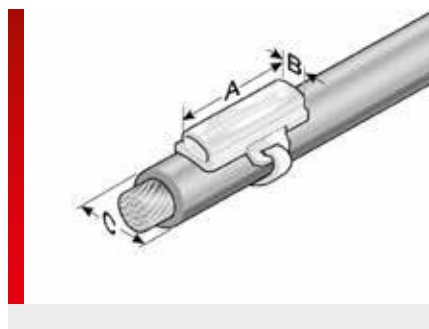
Individual label holders for wire, cable and conduit labels. The KM variable length label holders can be cut to any length and are used to hold the KS and KSO label plates.

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

|                                                                                     |                          |
|-------------------------------------------------------------------------------------|--------------------------|
|  | -40.00 – 140 °F          |
|  | Polyvinyl chloride (PVC) |
|  | V0                       |
|  | Individual length        |

[illegible]

### Label holder KMH (halogen-free)



## PRODUCT INFORMATION

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

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

## SPECIFICATIONS

 -40.00 – 176.00 °F  
 EVA  
 HB  
 Halogen-free  
 HF  

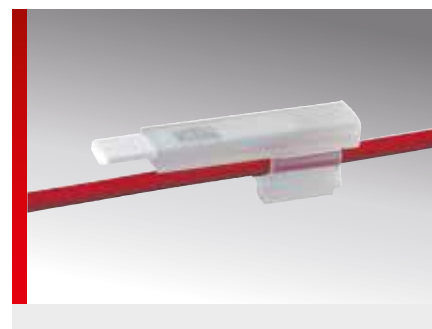
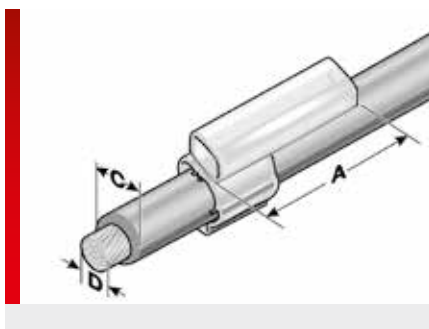

[illegible]

Figure shows KMH/Q 4/23

-  -40.00 – 212.00 °F  
short term 320 °F
  -  TPU
  -  V0
  -  Halogen-free

[illegible]

## KTN label holder (halogen-free)



## PRODUCT INFORMATION

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

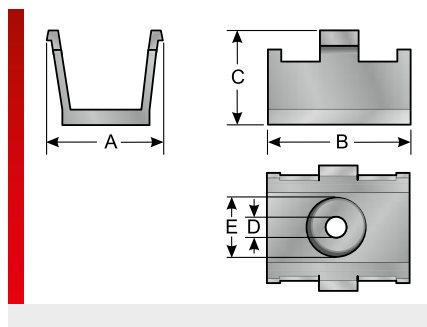
- The label holders are manually fastened.
- 5 versions are available for wire cross sections from 0.01 – 0.39 mm<sup>2</sup> (0.25 – 10 mm<sup>2</sup>) (AWG 24 – 8).

## SPECIFICATIONS

A vertical stack of four square icons. The first icon shows a thermometer with a red line indicating a temperature range, with the text "-40.00 – 212.00 °F" to its right. The second icon shows a network of nodes connected by lines, with the text "TPE" to its right. The third icon shows a flame, with the text "HB" to its right. The fourth icon shows an exclamation mark, with the text "Retrofitting" to its right.

| Type                                                              | Order No. | Color       | Application range<br>from - to<br>Ø in (C) | Core cross section<br>from - to<br>mm² (D) | Recommended<br>label<br>plate | No.<br>idents<br>BK23 / BK30 | Pack<br>qty. |
|-------------------------------------------------------------------|-----------|-------------|--------------------------------------------|--------------------------------------------|-------------------------------|------------------------------|--------------|
| <b>0.91 in (23 mm) sleeve length (A), single line inscription</b> |           |             |                                            |                                            |                               |                              |              |
| KTN 1/23                                                          | 86242310  | Transparent | 0.07 – 0.12                                | 0.01 – 0.06                                | KS 4/23                       | 10 / 7                       | 1000         |
| KTN 2/23                                                          | 86242312  | Transparent | 0.10 – 0.14                                | 0.03 – 0.10                                | KS 4/23                       | 10 / 7                       | 1000         |
| KTN 3/23                                                          | 86242314  | Transparent | 0.13 – 0.19                                | 0.10 – 0.16                                | KS 4/23                       | 10 / 7                       | 1000         |
| KTN 4/23                                                          | 86242316  | Transparent | 0.17 – 0.22                                | 0.16 – 0.24                                | KS 4/23                       | 10 / 7                       | 1000         |
| KTN 5/23                                                          | 86242318  | Transparent | 0.20 – 0.28                                | 0.24 – 0.39                                | KS 4/23                       | 10 / 7                       | 1000         |

## ASI-Snap label holder



## PRODUCT INFORMATION

Mounting clip for laying the ASI bus cable.  
Simple screwing or riveting mounting clip,  
for fastening and routing the ASI bus cable.  
The bus cable is simply snapped into the  
mounting clip without any further installation  
effort.

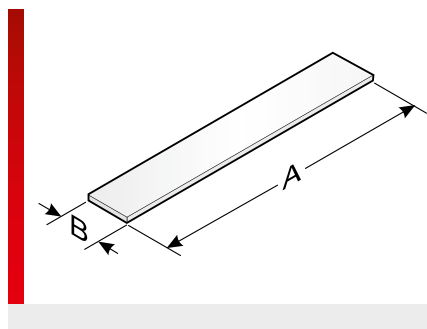
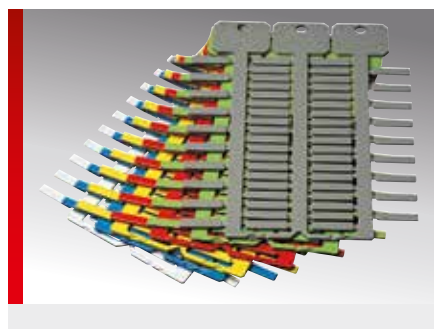
A KM 4/x series label can be latched into the mounting clip as bus cable labeling.

## SPECIFICATIONS

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

[illegible]

## KS Label plate (single-line)



### PRODUCT INFORMATION

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

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

Only the long mat version labels are to be used with the mp-LM laser series.

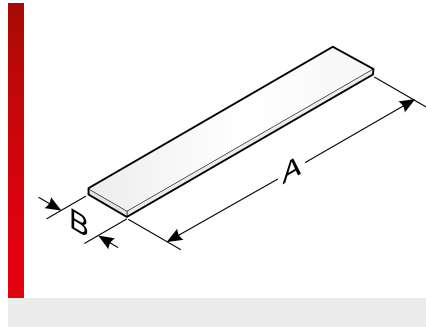
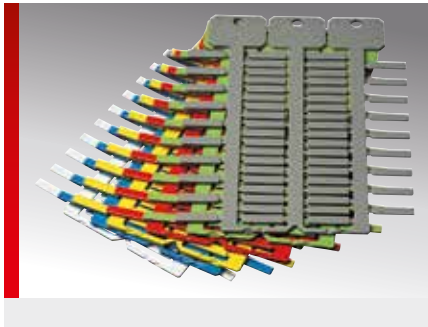
### SPECIFICATIONS

-  -40.00 – 266.00 °F
-  Polycarbonate (PC)
-  V0
-  Single-line inscription



| Type                                                         | Order No. | Color  | RAL equiv. | Label size in (B / A) | Labeling area inch | No. characters/lines | No. per frame | Base plate | Software type | Pack qty. |
|--------------------------------------------------------------|-----------|--------|------------|-----------------------|--------------------|----------------------|---------------|------------|---------------|-----------|
| <b>Label length 0.39 in (10 mm), 4-line mat design</b>       |           |        |            |                       |                    |                      |               |            |               |           |
| KS 4/10 4ST                                                  | 86361084  | White  | 9016       | 0.16 x 0.39           | 0.16 x 0.39        | 5 / 1                | 64.00         | GP4        | A86           | 1024      |
| <b>Label length 0.47 in (12 mm), 4-line mat design</b>       |           |        |            |                       |                    |                      |               |            |               |           |
| KS 4/12 4ST                                                  | 86361086  | White  | 9016       | 0.16 x 0.47           | 0.16 x 0.47        | 6 / 1                | 64.00         | GP4        | A87           | 1024      |
| KS 4/12 4ST                                                  | 86361087  | Yellow | 1018       | 0.16 x 0.47           | 0.16 x 0.47        | 6 / 1                | 64.00         | GP4        | 430           | 1024      |
| <b>Label length 0.47 in (12 mm)</b>                          |           |        |            |                       |                    |                      |               |            |               |           |
| KS 4/12                                                      | 86361026  | White  | 9016       | 0.16 x 0.47           | 0.16 x 0.47        | 6 / 1                | 57.00         | GP3        | 6             | 1026      |
| KS 4/12                                                      | 86361018  | Yellow | 1018       | 0.16 x 0.47           | 0.16 x 0.47        | 6 / 1                | 57.00         | GP3        | 7             | 1026      |
| KS 4/12                                                      | 86361020  | Red    | 2012       | 0.16 x 0.47           | 0.16 x 0.47        | 6 / 1                | 57.00         | GP3        | 8             | 1026      |
| KS 4/12                                                      | 86361022  | Green  | 6018       | 0.16 x 0.47           | 0.16 x 0.47        | 6 / 1                | 57.00         | GP3        | 9             | 1026      |
| KS 4/12                                                      | 86361024  | Blue   | 5012       | 0.16 x 0.47           | 0.16 x 0.47        | 6 / 1                | 57.00         | GP3        | 10            | 1026      |
| KS 4/12                                                      | 86361019  | Orange | 2011       | 0.16 x 0.47           | 0.16 x 0.47        | 6 / 1                | 57.00         | GP3        | 60            | 1026      |
| <b>Label length 0.47 in (12 mm) (high packaging density)</b> |           |        |            |                       |                    |                      |               |            |               |           |
| KS 4/12 ST                                                   | 86361072  | White  | 9016       | 0.16 x 0.47           | 0.16 x 0.47        | 6 / 1                | 72.00         | GP3        | 6ST           | 1296      |
| KS 4/12 ST                                                   | 86361073  | Yellow | 1018       | 0.16 x 0.47           | 0.16 x 0.47        | 6 / 1                | 72.00         | GP3        | 7ST           | 1296      |
| KS 4/12 ST                                                   | 86361074  | Red    | 2012       | 0.16 x 0.47           | 0.16 x 0.47        | 6 / 1                | 72.00         | GP3        | 8ST           | 1296      |
| <b>Label length 0.47 in (12 mm), leveled foot</b>            |           |        |            |                       |                    |                      |               |            |               |           |
| KS 4/12-AF                                                   | 86361027  | White  | 9016       | 0.16 x 0.47           | 0.16 x 0.47        | 6 / 1                | 57.00         | GP3        | 6AF           | 1026      |

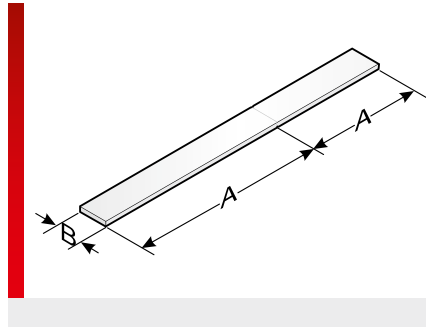
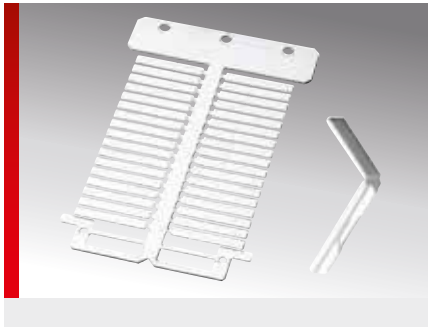
## KS Label plate (single-line) (Continued...)



| Type                                                         | Order No. | Color          | RAL equiv. | Label size in (B / A) | Labeling area inch | No. characters/lines | No. per frame | Base plate | Software type | Pack qty. |
|--------------------------------------------------------------|-----------|----------------|------------|-----------------------|--------------------|----------------------|---------------|------------|---------------|-----------|
| <b>Label length 0.59 in (15 mm), 4-line mat design</b>       |           |                |            |                       |                    |                      |               |            |               |           |
| KS 4/15 4ST                                                  | 86361088  | White          | 9016       | 0.16 x 0.59           | 0.16 x 0.59        | 8 / 1                | 64.00         | GP4        | A88           | 1024      |
| <b>Label length 0.71 in (18 mm)</b>                          |           |                |            |                       |                    |                      |               |            |               |           |
| KS 4/18                                                      | 86361033  | Orange         | 2011       | 0.16 x 0.71           | 0.16 x 0.71        | 10 / 1               | 57.00         | GP3        | 10            | 1026      |
| KS 4/18                                                      | 86361035  | Brown          | 8003       | 0.16 x 0.71           | 0.16 x 0.71        | 10 / 1               | 57.00         | GP3        | 1B            | 1026      |
| KS 4/18                                                      | 86361029  | Purple         | 4005       | 0.16 x 0.71           | 0.16 x 0.71        | 10 / 1               | 57.00         | GP3        | 1L            | 1026      |
| KS 4/18                                                      | 86361031  | Pink           | 4010       | 0.16 x 0.71           | 0.16 x 0.71        | 10 / 1               | 57.00         | GP3        | 1R            | 1026      |
| KS 4/18                                                      | 86361228  | Gray           | 7038       | 0.16 x 0.71           | 0.16 x 0.71        | 10 / 1               | 57.00         | GP3        | 1G            | 1026      |
| <b>Label length 0.71 in (18 mm) (high packaging density)</b> |           |                |            |                       |                    |                      |               |            |               |           |
| KS 4/18 ST                                                   | 86361080  | White          | 9016       | 0.16 x 0.71           | 0.16 x 0.71        | 10 / 1               | 72.00         | GP3        | 1ST           | 1296      |
| KS 4/18 ST                                                   | 86361081  | Yellow         | 1018       | 0.16 x 0.71           | 0.16 x 0.71        | 10 / 1               | 72.00         | GP3        | 2ST           | 1296      |
| KS 4/18 ST                                                   | 86361082  | Red            | 2012       | 0.16 x 0.71           | 0.16 x 0.71        | 10 / 1               | 72.00         | GP3        | 3ST           | 1296      |
| <b>Label length 0.71 in (18 mm), leveled foot</b>            |           |                |            |                       |                    |                      |               |            |               |           |
| KS 4/18-AF                                                   | 86361037  | White          | 9016       | 0.16 x 0.71           | 0.16 x 0.71        | 10 / 1               | 57.00         | GP3        | 5AF           | 1026      |
| <b>Label length 0.91 in (23 mm)</b>                          |           |                |            |                       |                    |                      |               |            |               |           |
| KS 4/23                                                      | 86361064  | White          | 9016       | 0.16 x 0.91           | 0.16 x 0.91        | 12 / 1               | 34.00         | GP3        | 11A           | v         |
| KS 4/23                                                      | 86361066  | Yellow         | 1018       | 0.16 x 0.91           | 0.16 x 0.91        | 12 / 1               | 34.00         | GP3        | 11B           | 1020      |
| KS 4/23                                                      | 86361068  | Red            | 2012       | 0.16 x 0.91           | 0.16 x 0.91        | 12 / 1               | 34.00         | GP3        | 11C           | 1020      |
| <b>Label length 1.18 in (30 mm)</b>                          |           |                |            |                       |                    |                      |               |            |               |           |
| KS 4/30                                                      | 86361042  | White          | 9016       | 0.16 x 1.18           | 0.16 x 1.18        | 16 / 1               | 34.00         | GP3        | 15            | 1020      |
| KS 4/30                                                      | 86361246  | Yellow         | 1018       | 0.16 x 1.18           | 0.16 x 1.18        | 16 / 1               | 34.00         | GP3        | 17            | 1020      |
| KS 4/30                                                      | 86361240  | Red            | 2012       | 0.16 x 1.18           | 0.16 x 1.18        | 16 / 1               | 34.00         | GP3        | 16            | 1020      |
| KS 4/30                                                      | 86361244  | Green          | 6018       | 0.16 x 1.18           | 0.16 x 1.18        | 16 / 1               | 34.00         | GP3        | 19            | 1020      |
| KS 4/30                                                      | 86361242  | Blue           | 5012       | 0.16 x 1.18           | 0.16 x 1.18        | 16 / 1               | 34.00         | GP3        | 18            | 1020      |
| KS 4/30 PE                                                   | 86361043  | Green / Yellow |            | 0.16 x 1.18           | 0.16 x 1.18        | 16 / 1               | 34.00         | GP3        | 15P           | 1020      |
| <b>Label length 0.47 in (12 mm), long mat design</b>         |           |                |            |                       |                    |                      |               |            |               |           |
| KS 4/12 L                                                    | 86362026  | White          | 9016       | 0.16 x 0.47           | 0.16 x 0.47        | 6 / 1                | 57.00         | GP3        | 477           | 1026      |
| KS 4/12 L                                                    | 86362018  | Yellow         | 1018       | 0.16 x 0.47           | 0.16 x 0.47        | 6 / 1                | 57.00         | GP3        | 478           | 1026      |
| KS 4/12 L                                                    | 86362020  | Red            | 2012       | 0.16 x 0.47           | 0.16 x 0.47        | 6 / 1                | 57.00         | GP3        | 479           | 1026      |
| KS 4/12 L                                                    | 86362022  | Green          | 6018       | 0.16 x 0.47           | 0.16 x 0.47        | 6 / 1                | 57.00         | GP3        | 480           | 1026      |

[illegible]

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



### PRODUCT INFORMATION

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

- Available in different colors.
- The KS 4/18-12 has a detachable section, where the necessary connection information can be stored.

- The length of the KS 4/30-70 can modified in 0.39 in (10 mm) increments for labels of 1.18 in (30 mm) length or longer.

Only the long mat version labels are to be used with the mp-LM laser series.

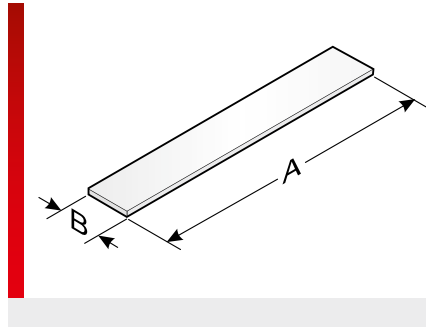
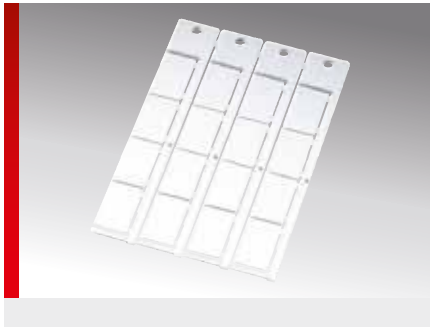
### SPECIFICATIONS

-  -40.00 – 266.00 °F
-  Polycarbonate (PC)
-  V0
-  Single-line inscription



| Type                                                                                     | Order No. | Color  | RAL equiv. | Label size in (B / A) | Labeling area inch | No. characters/lines | No. per frame | Base plate | Software type | Pack qty. |
|------------------------------------------------------------------------------------------|-----------|--------|------------|-----------------------|--------------------|----------------------|---------------|------------|---------------|-----------|
| <b>Label length 1.18 in (30 mm) (divided at 0.71 in (18 mm))</b>                         |           |        |            |                       |                    |                      |               |            |               |           |
| KS 4/18-12                                                                               | 86361048  | White  | 9016       | 0.16 x 1.18           | 0.16 x 1.18        | 16 / 1               | 34.00         | GP3        | 15A           | 1020      |
| KS 4/18-12                                                                               | 86361050  | Yellow | 1018       | 0.16 x 1.18           | 0.16 x 1.18        | 16 / 1               | 34.00         | GP3        | 17A           | 1020      |
| KS 4/18-12                                                                               | 86361052  | Red    | 2012       | 0.16 x 1.18           | 0.16 x 1.18        | 16 / 1               | 34.00         | GP3        | 17A           | 1020      |
| KS 4/18-12                                                                               | 86361054  | Green  | 6018       | 0.16 x 1.18           | 0.16 x 1.18        | 16 / 1               | 34.00         | GP3        | 18A           | 1020      |
| KS 4/18-12                                                                               | 86361056  | Blue   | 5012       | 0.16 x 1.18           | 0.16 x 1.18        | 16 / 1               | 34.00         | GP3        | 18A           | 1020      |
| KS 4/18-12                                                                               | 86361058  | Gray   | 7038       | 0.16 x 1.18           | 0.16 x 1.18        | 16 / 1               | 34.00         | GP3        | 20A           | 1020      |
| <b>Label length 1.18 in (30 mm) (divided at 0.71 in (18 mm)), long mat design</b>        |           |        |            |                       |                    |                      |               |            |               |           |
| KS 4/18-12 L                                                                             | 86362048  | White  | 9016       | 0.16 x 1.18           | 0.16 x 1.18        | 16 / 1               | 34.00         | GP3        | 467           | 1020      |
| KS 4/18-12 L                                                                             | 86362050  | Yellow | 1018       | 0.16 x 1.18           | 0.16 x 1.18        | 16 / 1               | 34.00         | GP3        | 468           | 1020      |
| KS 4/18-12 L                                                                             | 86362052  | Red    | 2012       | 0.16 x 1.18           | 0.16 x 1.18        | 16 / 1               | 34.00         | GP3        | 469           | 1020      |
| KS 4/18-12 L                                                                             | 86362054  | Green  | 6018       | 0.16 x 1.18           | 0.16 x 1.18        | 16 / 1               | 34.00         | GP3        | 470           | 1020      |
| KS 4/18-12 L                                                                             | 86362056  | Blue   | 5012       | 0.16 x 1.18           | 0.16 x 1.18        | 16 / 1               | 34.00         | GP3        | 471           | 1020      |
| <b>Label length 2.76 in (70 mm) (divided at 1.18/1.57/1.97/2.36 in (30/40/50/60 mm))</b> |           |        |            |                       |                    |                      |               |            |               |           |
| KS 4/30-70                                                                               | 86361070  | White  | 9016       | 0.16 x 2.76           | 0.16 x 2.76        | 38 / 1               | 18.00         | GP3        | 1U            | 324       |
| KS 4/30-70                                                                               | 86361071  | Yellow | 1018       | 0.16 x 2.76           | 0.16 x 2.76        | 38 / 1               | 18.00         | GP3        | 1U5           | 324       |

## KS label plate (multi-line)



### PRODUCT INFORMATION

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

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

The KS 15/x may be inserted into the KM 15\* label holders or the BZS 15\* and BZS/F 15\* label rails.  
The KS 22x22 is suitable for Siemens 3SB push-button and signal lamp holders.  
Other sizes of the KS label are used for BT and BMA label holders.

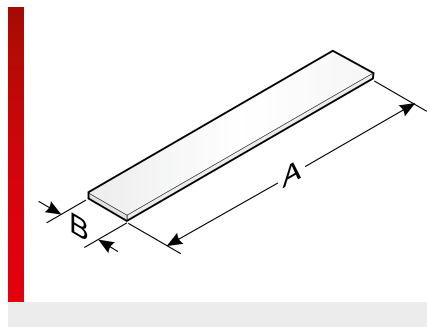
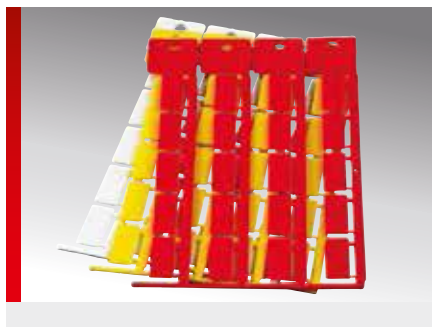
### SPECIFICATIONS

|                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    | -40.00 – 266.00 °F                                                                    |                                                                                       |                                                                                       |                                                                                       |
|    | Polycarbonate (PC)                                                                    |                                                                                       |                                                                                       |                                                                                       |
|    | V0                                                                                    |                                                                                       |                                                                                       |                                                                                       |
|    | Single-line and multi-line inscription                                                |                                                                                       |                                                                                       |                                                                                       |
|  |  |  |  |  |

| Type                                                                                                                | Order No. | Color  | RAL equiv. | Label size in (B / A) | Labeling area inch | No. characters/lines | No. per frame | Base plate | Software type | Pack qty. |
|---------------------------------------------------------------------------------------------------------------------|-----------|--------|------------|-----------------------|--------------------|----------------------|---------------|------------|---------------|-----------|
| <b>Label length 1.04 in (26.5 mm) for BT 22.5 and BT Harmony ZB4</b>                                                |           |        |            |                       |                    |                      |               |            |               |           |
| KS 8/26.5                                                                                                           | 86361060  | White  | 9016       | 0.31 x 1.04           | 0.31 x 1.04        | 14 / 2               | 16.00         | GP4        | 71            | 480       |
| <b>Label length 0.67 in (17 mm) for KM 15*, BZS 15* and BZS/F 15*</b>                                               |           |        |            |                       |                    |                      |               |            |               |           |
| KS 15/17                                                                                                            | 86361040  | White  | 9016       | 0.59 x 0.67           | 0.59 x 0.67        | 9 / 4                | 24.00         | GP4        | 84            | 720       |
| <b>Label length 1.06 in (27 mm) for KM 15/27, BT 15/27, BTK 15/27, BT-SR 15x27, BTK 22.5, BZS 15* and BZS/F 15*</b> |           |        |            |                       |                    |                      |               |            |               |           |
| KS 15/27                                                                                                            | 86361010  | White  | 9016       | 0.59 x 1.06           | 0.59 x 1.06        | 15 / 4               | 16.00         | GP4        | 85            | 480       |
| KS 15/27                                                                                                            | 86361012  | Yellow | 1018       | 0.59 x 1.06           | 0.59 x 1.06        | 15 / 4               | 16.00         | GP4        | 85G           | 480       |
| KS 15/27                                                                                                            | 86361008  | Red    | 2012       | 0.59 x 1.06           | 0.59 x 1.06        | 15 / 4               | 16.00         | GP4        | 85R           | 480       |
| KS 15/27                                                                                                            | 86361002  | Gray   | 7040       | 0.59 x 1.06           | 0.59 x 1.06        | 15 / 4               | 16.00         | GP4        | 85U           | 480       |
| <b>Label length 1.93 in (49 mm) for KM 15/49, BT 15/49, BTK 15/49 and BT-SR 15/49</b>                               |           |        |            |                       |                    |                      |               |            |               |           |
| KS 15/49                                                                                                            | 86361014  | White  | 9016       | 0.59 x 1.93           | 0.59 x 1.93        | 27 / 4               | 8.00          | GP4        | 86            | 240       |
| KS 15/49                                                                                                            | 86361015  | Yellow | 1018       | 0.59 x 1.93           | 0.59 x 1.93        | 27 / 4               | 8.00          | GP4        | 86G           | 240       |
| KS 15/49                                                                                                            | 86361013  | Red    | 2012       | 0.59 x 1.93           | 0.59 x 1.93        | 27 / 4               | 8.00          | GP4        | 86R           | 240       |
| KS 15/49                                                                                                            | 86361003  | Gray   | 7040       | 0.59 x 1.93           | 0.59 x 1.93        | 27 / 4               | 8.00          | GP4        | 86U           | 240       |
| <b>Label length 1.93 in (49 mm) for BT 15/49, BTK 15/49 and BT-SR 15/49</b>                                         |           |        |            |                       |                    |                      |               |            |               |           |
| KS 15/49 2x2.7mm                                                                                                    | 86361021  | White  | 9016       | 0.59 x 1.93           | 0.59 x 1.42        | 20 / 4               | 8.00          | GP4        | 086           | 240       |
| <b>Label length 2.64 in (67 mm) for KM 15/67, BT 15/67, BTK 15/67 and BT-SR 15/67</b>                               |           |        |            |                       |                    |                      |               |            |               |           |
| KS 15/67                                                                                                            | 86361016  | White  | 9016       | 0.59 x 2.64           | 0.59 x 2.64        | 37 / 4               | 4.00          | GP4        | 87            | 120       |
| KS 15/67                                                                                                            | 86361017  | Yellow | 1018       | 0.59 x 2.64           | 0.59 x 2.64        | 37 / 4               | 4.00          | GP4        | 87G           | 120       |
| KS 15/67                                                                                                            | 86361009  | Red    | 2012       | 0.59 x 2.64           | 0.59 x 2.64        | 37 / 4               | 4.00          | GP4        | 87R           | 120       |

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## Label plate KSO



### PRODUCT INFORMATION

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

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

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

### SPECIFICATIONS

|                                                                                       |                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | -40.00 – 266.00 °F                                                                                                                                                                                                                                                                                                                                      |
|    | Polycarbonate (PC)                                                                                                                                                                                                                                                                                                                                      |
|    | V0                                                                                                                                                                                                                                                                                                                                                      |
|    | Single-line and multi-line inscription                                                                                                                                                                                                                                                                                                                  |
|  |     |

| Type                                                 | Order No. | Color  | RAL equiv. | Label size in (B / A) | Labeling area inch | No. characters/lines | No. per frame | Base plate | Software type | Pack qty. |
|------------------------------------------------------|-----------|--------|------------|-----------------------|--------------------|----------------------|---------------|------------|---------------|-----------|
| <b>Label length 0.43 in (11 mm)</b>                  |           |        |            |                       |                    |                      |               |            |               |           |
| KSO 11x9                                             | 86421024  | White  | 9016       | 0.35 x 0.43           | 0.35 x 0.43        | 6 / 2                | 44.00         | GP4        | 60            | 1400      |
| KSO 11x9                                             | 86421013  | Yellow | 1018       | 0.35 x 0.43           | 0.35 x 0.43        | 6 / 2                | 44.00         | GP4        | 60G           | 1400      |
| KSO 11x9                                             | 86421015  | Red    | 2012       | 0.35 x 0.43           | 0.35 x 0.43        | 6 / 2                | 44.00         | GP4        | 60R           | 1400      |
| <b>Label length 0.59 in (15 mm)</b>                  |           |        |            |                       |                    |                      |               |            |               |           |
| KSO 15x9                                             | 86421026  | White  | 9016       | 0.35 x 0.59           | 0.35 x 0.59        | 8 / 2                | 44.00         | GP4        | 62            | 1400      |
| KSO 15x9                                             | 86421027  | Yellow | 1018       | 0.35 x 0.59           | 0.35 x 0.59        | 8 / 2                | 44.00         | GP4        | 62G           | 1400      |
| KSO 15x9                                             | 86421019  | Red    | 2012       | 0.35 x 0.59           | 0.35 x 0.59        | 8 / 2                | 44.00         | GP4        | 62R           | 1400      |
| <b>Label length 0.69 in (17.5 mm)</b>                |           |        |            |                       |                    |                      |               |            |               |           |
| KFM 17.5x8                                           | 86421071  | White  | 9016       | 0.31 x 0.69           | 0.31 x 0.69        | 9 / 2                | 24.00         | GP4        | 550           | 720       |
| <b>Label length 0.79 in (20 mm)</b>                  |           |        |            |                       |                    |                      |               |            |               |           |
| KSO 20x9                                             | 86421028  | White  | 9016       | 0.35 x 0.79           | 0.35 x 0.79        | 11 / 2               | 20.00         | GP4        | 64            | 680       |
| KSO 20x9                                             | 86421080  | Yellow | 1018       | 0.35 x 0.79           | 0.35 x 0.79        | 11 / 2               | 20.00         | GP4        | 65G           | 680       |
| KSO 20x9                                             | 86421030  | Red    | 2012       | 0.35 x 0.79           | 0.35 x 0.79        | 11 / 2               | 20.00         | GP4        | 65R           | 680       |
| <b>Label length 0.79 in (20 mm), long mat design</b> |           |        |            |                       |                    |                      |               |            |               |           |
| KSO 20x9L                                            | 86421230  | White  | 9016       | 0.35 x 0.79           | 0.35 x 0.79        | 11 / 2               | 20.00         | GP4        | 551           | 640       |
| KSO 20x9L                                            | 86421232  | Yellow | 1018       | 0.35 x 0.79           | 0.35 x 0.79        | 11 / 2               | 20.00         | GP4        | 552           | 640       |
| KSO 20x9L                                            | 86421234  | Red    | 2012       | 0.35 x 0.79           | 0.35 x 0.79        | 11 / 2               | 20.00         | GP4        | 553           | 640       |
| <b>Label length 1.38 in (35 mm)</b>                  |           |        |            |                       |                    |                      |               |            |               |           |
| KSO 35x9                                             | 86421064  | White  | 9016       | 0.35 x 1.38           | 0.35 x 1.38        | 19 / 2               | 12.00         | GP4        | 69W           | 360       |

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BS 5 and BS 5-2 are suitable for longitudinal mounting.  
BS 6 can be mounted lengthways and across.

## SPECIFICATIONS

|                                                                                      |                                                                           |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
|   | -40.00 – 266.00 °F                                                        |
|   | Polycarbonate (PC)                                                        |
|   | V0                                                                        |
|  | Single-line and multi-line inscription.<br>Mounted lengthwise and across. |

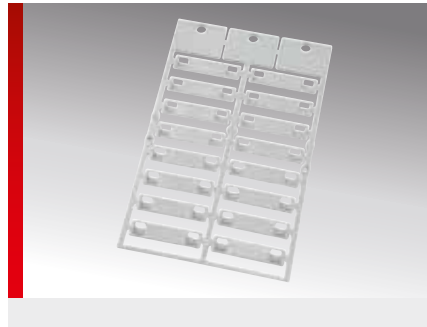
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High-quality, halogen-free label for subsequent direct labeling of wires.  
The KSM is made of PC material and has been developed for direct and subsequent marking of cables and wires.  
Only cable ties are required for assembly.

|                                                                                      |                                        |
|--------------------------------------------------------------------------------------|----------------------------------------|
|   | -40.00 – 266.00 °F                     |
|   | Polycarbonate (PC)                     |
|   | V0                                     |
|  | Single-line and multi-line inscription |

[illegible]

## KSM label plate (Polypropylene)



### PRODUCT INFORMATION

High-quality label to attach with cable ties directly onto the cables.  
The KSM labels are a product that is used for the subsequent marking of cables.

**The material Polypropylene (PP) is intended only for labels created with the MP laser system.**

Also available as easily detectable KSM-D labels.

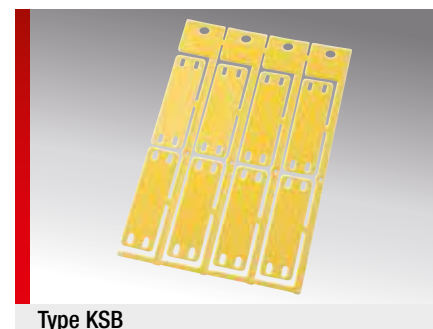
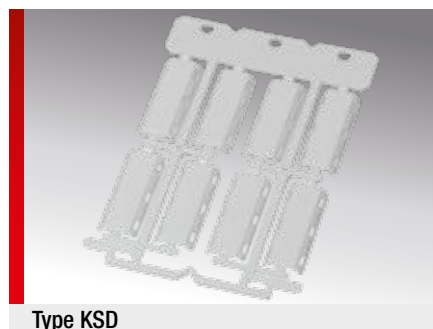
### SPECIFICATIONS

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



| Type                                                                                              | Order No. | Color  | RAL equiv. | Minimum diameter inch | Labeling area inch | No. characters/lines | Cable ties width inch | Cable ties length inch | No. per frame | Base plate | Software type | Pack qty. |
|---------------------------------------------------------------------------------------------------|-----------|--------|------------|-----------------------|--------------------|----------------------|-----------------------|------------------------|---------------|------------|---------------|-----------|
| <b>Labels for longitudinal installation; for labeling with the MP laser system</b>                |           |        |            |                       |                    |                      |                       |                        |               |            |               |           |
| KSM 35x8 PP                                                                                       | 86281610  | White  | 9016       | 0.20                  | 0.31 x 0.71        | 10 / 2               |                       |                        | 16.00         | GP3M       | 524           | 320       |
| KSM 35x8 PP                                                                                       | 86281620  | Yellow | 1018       | 0.20                  | 0.31 x 0.71        | 10 / 2               |                       |                        | 16.00         | GP3M       | 529           | 320       |
| KSM 45x10 PP                                                                                      | 86281612  | White  | 9016       | 0.20                  | 0.39 x 1.1         | 15 / 2               |                       |                        | 8.00          | GP3M       | 525           | 160       |
| KSM 45x10 PP                                                                                      | 86281622  | Yellow | 1018       | 0.20                  | 0.39 x 1.1         | 15 / 2               |                       |                        | 8.00          | GP3M       | 530           | 160       |
| KSM 55x12 PP                                                                                      | 86281614  | White  | 9016       | 0.20                  | 0.47 x 1.5         | 21 / 3               |                       |                        | 6.00          | GP3M       | 526           | 108       |
| KSM 55x12 PP                                                                                      | 86281624  | Yellow | 1018       | 0.20                  | 0.47 x 1.5         | 21 / 3               |                       |                        | 6.00          | GP3M       | 531           | 108       |
| KSM 65x14 PP                                                                                      | 86281618  | White  | 9016       | 0.20                  | 0.55 x 1.89        | 26 / 4               |                       |                        | 6.00          | GP3M       | 528           | 108       |
| KSM 65x14 PP                                                                                      | 86281628  | Yellow | 1018       | 0.20                  | 0.55 x 1.89        | 26 / 4               |                       |                        | 6.00          | GP3M       | 533           | 108       |
| KSM 70x10 PP                                                                                      | 86281616  | White  | 9016       | 0.20                  | 0.39 x 2.09        | 29 / 2               |                       |                        | 8.00          | GP3M       | 527           | 144       |
| KSM 70x10 PP                                                                                      | 86281626  | Yellow | 1018       | 0.20                  | 0.39 x 2.09        | 29 / 2               |                       |                        | 8.00          | GP3M       | 532           | 144       |
| <b>Noticeable cable ties for longitudinal installation; for labeling with the MP laser system</b> |           |        |            |                       |                    |                      |                       |                        |               |            |               |           |
| KSM-D 35x8 PP                                                                                     | 86281810  | Gray   | 7038       | 0.20                  | 0.31 x 0.71        | 10 / 2               |                       |                        | 16.00         | GP3M       | 534           | 320       |
| KSM-D 45x10 PP                                                                                    | 86281812  | Gray   | 7038       | 0.20                  | 0.39 x 1.1         | 15 / 2               |                       |                        | 8.00          | GP3M       | 535           | 160       |
| KSM-D 55x12 PP                                                                                    | 86281814  | Gray   | 7038       | 0.20                  | 0.47 x 1.5         | 21 / 3               |                       |                        | 6.00          | GP3M       | 536           | 108       |
| KSM-D 65x14 PP                                                                                    | 86281818  | Gray   | 7038       | 0.20                  | 0.55 x 1.89        | 26 / 4               |                       |                        | 6.00          | GP3M       | 538           | 108       |
| KSM-D 70x10 PP                                                                                    | 86281816  | Gray   | 7038       | 0.20                  | 0.39 x 2.09        | 29 / 2               |                       |                        | 8.00          | GP3M       | 537           | 144       |
| <b>Noticeable cable ties</b>                                                                      |           |        |            |                       |                    |                      |                       |                        |               |            |               |           |
| KB-D 20                                                                                           | 88661252  | Blue   |            |                       |                    |                      | 0.10                  | 3.94                   |               |            |               | 100       |
| KB-D 25                                                                                           | 88661256  | Blue   |            |                       |                    |                      | 0.14                  | 5.51                   |               |            |               | 100       |
| KB-D 55                                                                                           | 88661266  | Blue   |            |                       |                    |                      | 0.18                  | 7.87                   |               |            |               | 100       |
| KB-D 75                                                                                           | 88661268  | Blue   |            |                       |                    |                      | 0.18                  | 11.02                  |               |            |               | 100       |

## KSD/KSB label plate (Polypropylene)



### PRODUCT INFORMATION

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

#### KSD/KSB label applications

The KSD/KSB label is a product designed for the subsequent marking of cables; it features a low-profile. The low-profile design requires that cable ties must not be tightened with a force higher than (50-60 N / 5-6 kg). Since

for these small cable diameters the force intensifies at the tongues considerably, you must observe the recommended areas of application.

**The material Polypropylene (PP) is intended only for labels created with the MP laser system.**

### SPECIFICATIONS

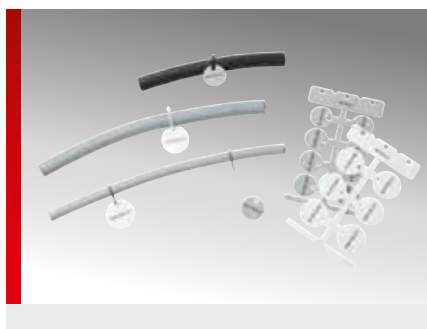
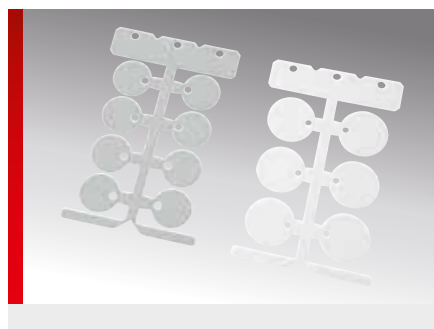
|                                                                                       |                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|---------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

| Type                                                                                                         | Order No. | Color  | RAL equiv. | Minimum diameter inch | Label size in (B / A) | Labeling area inch | No. characters/lines | No. per frame | Base plate | Software type | Pack qty. |
|--------------------------------------------------------------------------------------------------------------|-----------|--------|------------|-----------------------|-----------------------|--------------------|----------------------|---------------|------------|---------------|-----------|
| <b>For longitudinal installation and labeling with the MP labeling system</b>                                |           |        |            |                       |                       |                    |                      |               |            |               |           |
| KSD 20x5 PP <sup>1)</sup>                                                                                    | 86281054  | White  | 9016       | 0.20                  | 0.2 x 0.79            | 0.2 x 0.79         | 11 / 1               | 16.00         | GP3K       | 445           | 480       |
| KSD 30x8 PP <sup>1)</sup>                                                                                    | 86281052  | White  | 9016       | 0.31                  | 0.31 x 1.18           | 0.31 x 1.18        | 16 / 2               | 12.00         | GP3K       | 444           | 360       |
| KSD 40x10 PP <sup>1)</sup>                                                                                   | 86281036  | White  | 9016       | 0.39                  | 0.39 x 1.57           | 0.39 x 1.57        | 22 / 2               | 8.00          | GP3K       | 271           | 240       |
| KSD 40x10 PP <sup>1)</sup>                                                                                   | 86281038  | Yellow | 1018       | 0.39                  | 0.39 x 1.57           | 0.39 x 1.57        | 22 / 2               | 8.00          | GP3K       | 272           | 240       |
| <b>For longitudinal installation (long mat version); for labeling with the MP laser system</b>               |           |        |            |                       |                       |                    |                      |               |            |               |           |
| KSD 20x5L PP <sup>1)</sup>                                                                                   | 86281080  | White  | 9016       | 0.20                  | 0.2 x 0.79            | 0.2 x 0.79         | 11 / 1               | 16.00         | GP3K       | 501           | 480       |
| KSD 20x5L PP <sup>1)</sup>                                                                                   | 86281082  | Yellow | 1018       | 0.20                  | 0.2 x 0.79            | 0.2 x 0.79         | 11 / 1               | 16.00         | GP3K       | 502           | 480       |
| KSD 30x8L PP <sup>1)</sup>                                                                                   | 86281086  | White  | 9016       | 0.31                  | 0.31 x 1.18           | 0.31 x 1.18        | 16 / 2               | 12.00         | GP3K       | 504           | 216       |
| KSD 30x8L PP <sup>1)</sup>                                                                                   | 86281088  | Yellow | 1018       | 0.31                  | 0.31 x 1.18           | 0.31 x 1.18        | 16 / 2               | 12.00         | GP3K       | 505           | 216       |
| KSD 40x10L PP <sup>1)</sup>                                                                                  | 86281090  | White  | 9016       | 0.39                  | 0.39 x 1.57           | 0.39 x 1.57        | 22 / 2               | 8.00          | GP3K       | 507           | 240       |
| KSD 40x10L PP <sup>1)</sup>                                                                                  | 86281092  | Yellow | 1018       | 0.39                  | 0.39 x 1.57           | 0.39 x 1.57        | 22 / 2               | 8.00          | GP3K       | 508           | 240       |
| <b>Custom variants upon request (for longitudinal installation and labeling with the MP labeling system)</b> |           |        |            |                       |                       |                    |                      |               |            |               |           |
| KSB 52x15 PP <sup>1)</sup>                                                                                   | 86281210  | Yellow | 1018       | 0.20                  | 0.59 x 2.05           | 0.59 x 1.57        | 22 / 4               | 8.00          | GP4        | 440           | 240       |

<sup>1)</sup> Label size specifications (B x A) are shown in width x length.

[illegible]

## KSR label plate



### PRODUCT INFORMATION

High-quality, halogen-free round label plate (PC circular blank) for subsequent labeling of cables, lines and conduits.

Fastened with either a cable tie or the S-hook.

### SPECIFICATIONS

|                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    | -40.00 – 266.00 °F                                                                    |                                                                                       |                                                                                       |                                                                                       |
|    | Polycarbonate (PC)                                                                    |                                                                                       |                                                                                       |                                                                                       |
|    | V0                                                                                    |                                                                                       |                                                                                       |                                                                                       |
|    | Single-line and multi-line inscription                                                |                                                                                       |                                                                                       |                                                                                       |
|  |  |  |  |  |

| Type                                  | Order No. | Color | RAL equiv. | Label size<br>Ø in | Fastening hole<br>Ø in | Cable ties<br>max. width<br>inch | No.<br>per<br>frame | Base<br>plate | Soft-<br>ware<br>type | Pack<br>qty. |
|---------------------------------------|-----------|-------|------------|--------------------|------------------------|----------------------------------|---------------------|---------------|-----------------------|--------------|
| <b>Mounting hole 0.14 in (3.5 mm)</b> |           |       |            |                    |                        |                                  |                     |               |                       |              |
| KSR D20-3.5                           | 86411210  | White | 9016       | 0.79               | 1x 0.14                | 0.11                             | 8.00                | GP3           | 447                   | 120          |
| KSR D20-3.5                           | 86411222  | Gray  | 7038       | 0.79               | 1x 0.14                | 0.11                             | 8.00                | GP3           | 453                   | 120          |
| KSR D25-3.5                           | 86411214  | White | 9016       | 0.98               | 1x 0.14                | 0.11                             | 8.00                | GP3           | 449                   | 120          |
| KSR D25-3.5                           | 86411226  | Gray  | 7038       | 0.98               | 1x 0.14                | 0.11                             | 8.00                | GP3           | 455                   | 120          |
| KSR D30-3.5                           | 86411218  | White | 9016       | 1.18               | 1x 0.14                | 0.11                             | 6.00                | GP3           | 451                   | 90           |
| KSR D30-3.5                           | 86411230  | Gray  | 7038       | 1.18               | 1x 0.14                | 0.11                             | 6.00                | GP3           | 457                   | 90           |
| <b>Mounting hole 0.17 in (4.2 mm)</b> |           |       |            |                    |                        |                                  |                     |               |                       |              |
| KSR D20-4.2                           | 86411212  | White | 9016       | 0.79               | 1x 0.17                | 0.14                             | 8.00                | GP3           | 448                   | 120          |
| KSR D20-4.2                           | 86411224  | Gray  | 7038       | 0.79               | 1x 0.17                | 0.14                             | 8.00                | GP3           | 454                   | 120          |
| KSR D25-4.2                           | 86411216  | White | 9016       | 0.98               | 1x 0.17                | 0.14                             | 8.00                | GP3           | 450                   | 120          |
| KSR D25-4.2                           | 86411228  | Gray  | 7038       | 0.98               | 1x 0.17                | 0.14                             | 8.00                | GP3           | 456                   | 120          |
| KSR D30-4.2                           | 86411220  | White | 9016       | 1.18               | 1x 0.17                | 0.14                             | 6.00                | GP3           | 452                   | 90           |
| KSR D30-4.2                           | 86411232  | Gray  | 7038       | 1.18               | 1x 0.17                | 0.14                             | 6.00                | GP3           | 458                   | 90           |

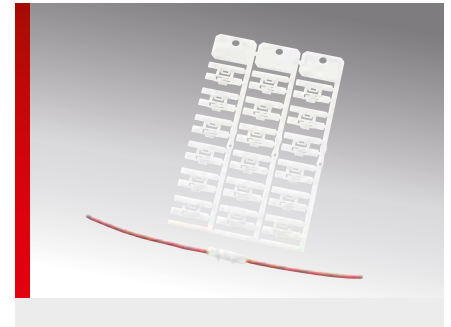
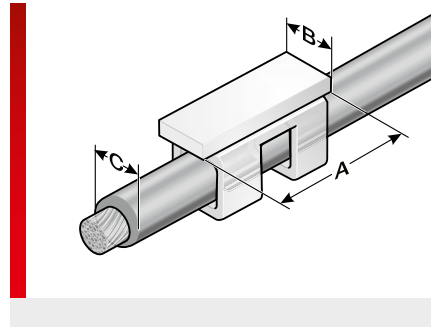
The S-hook is listed in Accessories in the ACS catalog. The correct size KB cable ties are listed in the accessories in the KDH catalog.

- For wire cross sections from 0.5 – 4 mm<sup>2</sup> (AWG 20 – 12).
- Available in two lengths, in the colors white and yellow.

 -40.00 – 266.00 °F  
 Polycarbonate (PC)  
 V0  
 Single-line inscription. Suitable for use with narrow wire bending radii.

[illegible]

## KNC label plate



### PRODUCT INFORMATION

High-quality, halogen-free label for subsequent direct labeling of wires. The KNC is made of PC material and has been developed for direct and subsequent marking of cables and wires. No tools required.

Available in three sizes for diameters of 0.08 in to 0.20 in (2,0 – 5,1 mm).

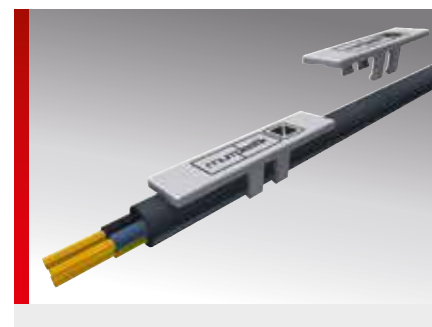
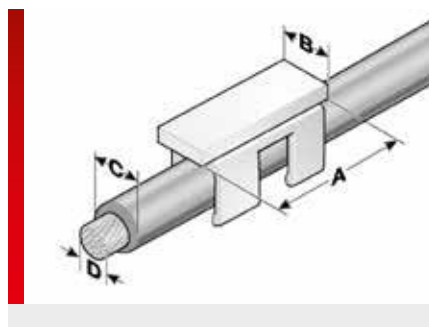
### SPECIFICATIONS

|                                                                                     |                    |
|-------------------------------------------------------------------------------------|--------------------|
|  | -40.00 – 266.00 °F |
|  | Polycarbonate (PC) |
|  | V0                 |



| Type                                                             | Order No. | Color  | Application range from - to Ø in. (C) | Label size in (B / A) | Labeling area inch | No. characters/lines | No. per frame | Base plate | Software type | Pack qty. |
|------------------------------------------------------------------|-----------|--------|---------------------------------------|-----------------------|--------------------|----------------------|---------------|------------|---------------|-----------|
| <b>For cable diameters of 0.08 to 0.12 in (2.0 mm to 3.1 mm)</b> |           |        |                                       |                       |                    |                      |               |            |               |           |
| KNC 4,0/12-2,0                                                   | 86381912  | White  | 0.08 – 0.12                           | 0.16 x 0.47           | 0.16 x 0.47        | 6 / 1                | 18.00         | GP3C       | C00           | 234.00    |
| KNC 4,0/12-2,0                                                   | 86381942  | Yellow | 0.08 – 0.12                           | 0.16 x 0.47           | 0.16 x 0.47        | 6 / 1                | 18.00         | GP3C       | C01           | 234.00    |
| KNC 4,0/18-2,0                                                   | 86381914  | White  | 0.08 – 0.12                           | 0.16 x 0.71           | 0.16 x 0.71        | 10 / 1               | 18.00         | GP3C       | C02           | 234.00    |
| KNC 4,0/18-2,0                                                   | 86381944  | Yellow | 0.08 – 0.12                           | 0.16 x 0.71           | 0.16 x 0.71        | 10 / 1               | 18.00         | GP3C       | C03           | 234.00    |
| KNC 4,0/23-2,0                                                   | 86381916  | White  | 0.08 – 0.12                           | 0.16 x 0.91           | 0.16 x 0.91        | 12 / 1               | 18.00         | GP3C       | C04           | 234.00    |
| KNC 4,0/23-2,0                                                   | 86381946  | Yellow | 0.08 – 0.12                           | 0.16 x 0.91           | 0.16 x 0.91        | 12 / 1               | 18.00         | GP3C       | C05           | 234.00    |
| <b>For cable diameters of 0.12 to 0.16 in (3.0 mm to 4.1 mm)</b> |           |        |                                       |                       |                    |                      |               |            |               |           |
| KNC 4,8/12-3,0                                                   | 86381922  | White  | 0.12 – 0.16                           | 0.19 x 0.47           | 0.19 x 0.47        | 6 / 1                | 18.00         | GP3C       | C06           | 234.00    |
| KNC 4,8/12-3,0                                                   | 86381952  | Yellow | 0.12 – 0.16                           | 0.19 x 0.47           | 0.19 x 0.47        | 6 / 1                | 18.00         | GP3C       | C07           | 234.00    |
| KNC 4,8/18-3,0                                                   | 86381924  | White  | 0.12 – 0.16                           | 0.19 x 0.71           | 0.19 x 0.71        | 10 / 1               | 18.00         | GP3C       | C08           | 234.00    |
| KNC 4,8/18-3,0                                                   | 86381954  | Yellow | 0.12 – 0.16                           | 0.19 x 0.71           | 0.19 x 0.71        | 10 / 1               | 18.00         | GP3C       | C09           | 234.00    |
| KNC 4,8/23-3,0                                                   | 86381926  | White  | 0.12 – 0.16                           | 0.19 x 0.91           | 0.19 x 0.91        | 12 / 1               | 18.00         | GP3C       | C10           | 234.00    |
| KNC 4,8/23-3,0                                                   | 86381956  | Yellow | 0.12 – 0.16                           | 0.19 x 0.91           | 0.19 x 0.91        | 12 / 1               | 18.00         | GP3C       | C11           | 234.00    |
| <b>For cable diameters of 0.16 to 0.20 in (4.0 mm to 5.1 mm)</b> |           |        |                                       |                       |                    |                      |               |            |               |           |
| KNC 5,5/12-4,0                                                   | 86381932  | White  | 0.16 – 0.2                            | 0.22 x 0.47           | 0.22 x 0.47        | 6 / 1                | 18.00         | GP3C       | C12           | 234.00    |
| KNC 5,5/12-4,0                                                   | 86381962  | Yellow | 0.16 – 0.2                            | 0.22 x 0.47           | 0.22 x 0.47        | 6 / 1                | 18.00         | GP3C       | C13           | 234.00    |
| KNC 5,5/18-4,0                                                   | 86381934  | White  | 0.16 – 0.2                            | 0.22 x 0.71           | 0.22 x 0.71        | 10 / 1               | 18.00         | GP3C       | C14           | 234.00    |
| KNC 5,5/18-4,0                                                   | 86381964  | Yellow | 0.16 – 0.2                            | 0.22 x 0.71           | 0.22 x 0.71        | 10 / 1               | 18.00         | GP3C       | C15           | 234.00    |
| KNC 5,5/23-4,0                                                   | 86381936  | White  | 0.16 – 0.2                            | 0.22 x 0.91           | 0.22 x 0.91        | 12 / 1               | 18.00         | GP3C       | C16           | 234.00    |
| KNC 5,5/23-4,0                                                   | 86381966  | Yellow | 0.16 – 0.2                            | 0.22 x 0.91           | 0.22 x 0.91        | 12 / 1               | 18.00         | GP3C       | C17           | 234.00    |

## KNQ label plate



### PRODUCT INFORMATION

High-quality, halogen-free label for subsequent direct labeling of wires. The KNQ label can be clipped onto wired single cores by hand without prior disconnection. No tools required.

Available in three sizes for wire cross-sections of 0.5 - 6 mm<sup>2</sup> (AWG 20 – 10).

### SPECIFICATIONS

|                                                                                     |                                       |
|-------------------------------------------------------------------------------------|---------------------------------------|
|  | -40.00 – 266.00 °F                    |
|  | Polycarbonate (PC)                    |
|  | V0                                    |
|  | Single-line inscription Retrofitting. |



| Type           | Order No. | Color | RAL equiv. | Application range from - to Ø in. (C) | Wire cross-section from - to in <sup>2</sup> (D) | Label size in (B / A) | Labeling area inch | No. characters/lines | No. per frame | Base plate | Software type | Pack qty. |
|----------------|-----------|-------|------------|---------------------------------------|--------------------------------------------------|-----------------------|--------------------|----------------------|---------------|------------|---------------|-----------|
| KNQ 3.8/12-2.0 | 86381810  | White | 9016       | 0.08 – 0.1                            | 0.02 – 0.03                                      | 0.15 x 0.47           | 0.15 x 0.47        | 6 / 1                | 48            | GP3Q       | 400           | 720       |
| KNQ 3.8/18-2.0 | 86381812  | White | 9016       | 0.08 – 0.1                            | 0.02 – 0.03                                      | 0.15 x 0.71           | 0.15 x 0.71        | 10 / 1               | 48            | GP3Q       | 401           | 720       |
| KNQ 3.8/23-2.0 | 86381814  | White | 9016       | 0.08 – 0.1                            | 0.02 – 0.03                                      | 0.15 x 0.91           | 0.15 x 0.91        | 12 / 1               | 48            | GP3Q       | 402           | 720       |
| KNQ 3.8/12-2.5 | 86381820  | White | 9016       | 0.1 – 0.12                            | 0.75 – 1.5                                       | 0.15 x 0.47           | 0.15 x 0.47        | 6 / 1                | 48            | GP3Q       | 403           | 720       |
| KNQ 3.8/18-2.5 | 86381822  | White | 9016       | 0.1 – 0.12                            | 0.75 – 1.5                                       | 0.15 x 0.71           | 0.15 x 0.71        | 10 / 1               | 48            | GP3Q       | 404           | 720       |
| KNQ 3.8/23-2.5 | 86381824  | White | 9016       | 0.1 – 0.12                            | 0.75 – 1.5                                       | 0.15 x 0.91           | 0.15 x 0.91        | 12 / 1               | 48            | GP3Q       | 405           | 720       |
| KNQ 4.8/12-3.0 | 86381830  | White | 9016       | 0.12 – 0.14                           | 1.5 – 2.5                                        | 0.19 x 0.47           | 0.19 x 0.47        | 6 / 1                | 48            | GP3Q       | 406           | 720       |
| KNQ 4.8/18-3.0 | 86381832  | White | 9016       | 0.12 – 0.14                           | 1.5 – 2.5                                        | 0.19 x 0.71           | 0.19 x 0.71        | 10 / 1               | 48            | GP3Q       | 407           | 720       |
| KNQ 4.8/23-3.0 | 86381834  | White | 9016       | 0.12 – 0.14                           | 1.5 – 2.5                                        | 0.19 x 0.91           | 0.19 x 0.91        | 12 / 1               | 48            | GP3Q       | 408           | 720       |
| KNQ 4.8/12-3.5 | 86381840  | White | 9016       | 0.14 – 0.17                           | 0.10 – 0.16                                      | 0.19 x 0.47           | 0.19 x 0.47        | 6 / 1                | 48            | GP3Q       | 409           | 720       |
| KNQ 4.8/18-3.5 | 86381842  | White | 9016       | 0.14 – 0.17                           | 0.10 – 0.16                                      | 0.19 x 0.71           | 0.19 x 0.71        | 10 / 1               | 48            | GP3Q       | 410           | 720       |
| KNQ 4.8/23-3.5 | 86381844  | White | 9016       | 0.14 – 0.17                           | 0.10 – 0.16                                      | 0.19 x 0.91           | 0.19 x 0.91        | 12 / 1               | 48            | GP3Q       | 411           | 720       |
| KNQ 5.5/12-4.2 | 86381850  | White | 9016       | 0.17 – 0.2                            | 0.16 – 0.24                                      | 0.22 x 0.47           | 0.22 x 0.47        | 6 / 1                | 48            | GP3Q       | 412           | 720       |
| KNQ 5.5/18-4.2 | 86381852  | White | 9016       | 0.17 – 0.2                            | 0.16 – 0.24                                      | 0.22 x 0.71           | 0.22 x 0.71        | 10 / 1               | 48            | GP3Q       | 413           | 720       |
| KNQ 5.5/23-4.2 | 86381854  | White | 9016       | 0.17 – 0.2                            | 0.16 – 0.24                                      | 0.22 x 0.91           | 0.22 x 0.91        | 12 / 1               | 48            | GP3Q       | 414           | 720       |

#### KNQ installation tool

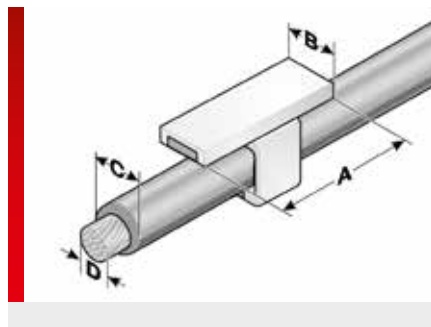
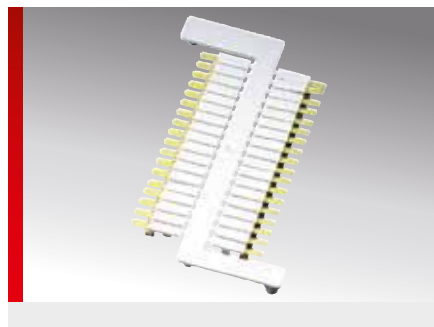
|                      |          |     |  |  |  |  |  |  |  |  |  |   |
|----------------------|----------|-----|--|--|--|--|--|--|--|--|--|---|
| MW-KNQ 3.8 ass. tool | 86381620 | Red |  |  |  |  |  |  |  |  |  | 1 |
| MW-KNQ 4.8 ass. tool | 86381622 | Red |  |  |  |  |  |  |  |  |  | 1 |
| MW-KNQ 5.5 ass. tool | 86381624 | Red |  |  |  |  |  |  |  |  |  | 1 |

- Two sizes cover the wire cross sections from 0.25 – 1.5 mm<sup>2</sup> (AWG 24 – 16).
- Available in white.

|                                                                                     |                         |
|-------------------------------------------------------------------------------------|-------------------------|
|  | -40.00 – 266.00 °F      |
|  | Polycarbonate (PC)      |
|  | V0                      |
|  | Single-line inscription |

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## KSN Label plate



## PRODUCT INFORMATION

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

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

- Available in three sizes for wire cross-sections of 0.5 - 2.5 mm<sup>2</sup> (AWG 20 – 14).

## SPECIFICATIONS

 -40.00 – 266.00 °F  
 Polycarbonate (PC)  
 V0  
 Single-line inscription Retrofitting.

| Type  | Order No. | Color | RAL<br>equiv. | Application<br>range<br>from - to<br>Ø in. (C) | Wire<br>cross-section<br>from - to<br>in² (D) | Label<br>size<br>in (B / A) | Labeling<br>area<br>inch | No.<br>char-<br>acters/<br>lines | No.<br>per<br>frame | Base<br>plate | Soft-<br>ware<br>type | Pack<br>qty. |
|-------|-----------|-------|---------------|------------------------------------------------|-----------------------------------------------|-----------------------------|--------------------------|----------------------------------|---------------------|---------------|-----------------------|--------------|
| KSN-A | 86381410  | White | 9016          | 0.08 – 0.1                                     | 0.02 – 0.03                                   | 0.2 x 0.55                  | 0.2 x 0.55               | 7 / 1                            | 36                  | none          | 12                    | 360          |
| KSN-B | 86381412  | White | 9016          | 0.1 – 0.12                                     | 1.0 – 1.5                                     | 0.2 x 0.55                  | 0.2 x 0.55               | 7 / 1                            | 36                  | none          | 13                    | 360          |
| KSN-C | 86381414  | White | 9016          | 0.12 – 0.15                                    | 1.75 – 2.5                                    | 0.2 x 0.55                  | 0.2 x 0.55               | 7 / 1                            | 36                  | none          | 14                    | 360          |

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

|                |          |                 |   |
|----------------|----------|-----------------|---|
| KSN sample set | 86391010 | Materialtypisch | 1 |
|----------------|----------|-----------------|---|

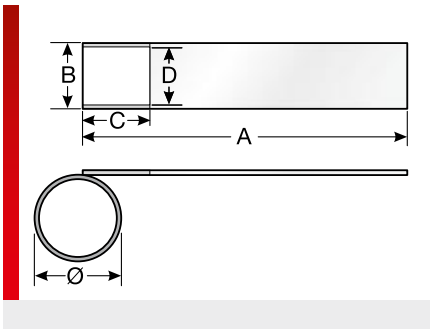
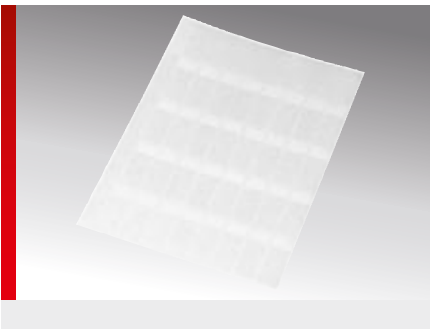
### Assembly tool

|      |          |                 |   |
|------|----------|-----------------|---|
| MW 1 | 86381610 | Materialtypisch | 1 |
|------|----------|-----------------|---|

### Mounting plate

|       |          |                 |   |
|-------|----------|-----------------|---|
| MPKSN | 86381612 | Materialtypisch | 1 |
|-------|----------|-----------------|---|

# ESL self-laminating label



## PRODUCT INFORMATION

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

## SPECIFICATIONS

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



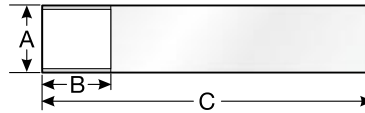


| Type                      | Order No. | Color  | RAL equiv. | Label size in (B / A) | Printable area in (D x C) | No. of columns | No. Per sheet | Software type | Pack qty. |
|---------------------------|-----------|--------|------------|-----------------------|---------------------------|----------------|---------------|---------------|-----------|
| ESL 20x12R <sup>1)</sup>  | 86562450  | White  | 9016       | 0.47 x 0.79           | 0.47 x 0.28               | 13.00          | 156.00        | 126           | 1560      |
| ESL 35x17R <sup>1)</sup>  | 86562452  | White  | 9016       | 0.67 x 1.38           | 0.67 x 0.35               | 10             | 70.00         | 124           | 1400      |
| ESL 56x21R <sup>1)</sup>  | 86562454  | White  | 9016       | 0.83 x 2.2            | 0.83 x 0.51               | 8.00           | 32.00         | 113           | 800       |
| ESL 56x21R <sup>1)</sup>  | 86562460  | Yellow | 1018       | 0.83 x 2.2            | 0.83 x 0.51               | 8.00           | 32.00         | A41           | 800       |
| ESL 93x31R <sup>1)</sup>  | 86562456  | White  | 9016       | 1.22 x 3.66           | 1.22 x 0.98               | 5              | 15            | 127           | 300       |
| ESL 140x47R <sup>1)</sup> | 86562458  | White  | 9016       | 1.85 x 5.51           | 1.85 x 1.18               | 4.00           | 8.00          | 125           | 200       |

Please note: Labels processed at min. 10°C

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

## TES - self-laminating cable tag



### PRODUCT INFORMATION

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

In addition, the backing paper is printed with precisely-dimensioned stripes for optimum sensor detection. The special film is only 0.05 mm thick and is highly flexible and supple. This ensures that the cable tag will

not peel back up, even when used for cables with small diameters. The high-transparency laminate ensures the printed lettering remains easy to read.

TES - Self-laminating cable markers are suitable for

- wire and cable labeling

**Suitable for use with pavonis thermal transfer printers and the mp-TM series (with external unwinder).**

### SPECIFICATIONS

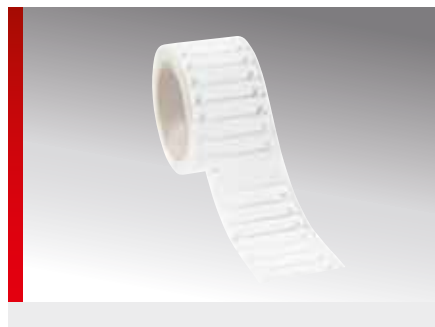
|                                                                                      |                                                                                      |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|   | -4.00 – 176.00 °F                                                                    |
|   | Polyester film                                                                       |
|   | Label rail with thermal transfer printer<br>Roll core diameter 1 inch                |
|  |  |

| Type                        | Order No. | Color  | Label size<br>in. (A x B) | Holder length<br>in. (C) | Roll width<br>inch | Recommended<br>printer ribbon | Software<br>type | Pack<br>qty. |
|-----------------------------|-----------|--------|---------------------------|--------------------------|--------------------|-------------------------------|------------------|--------------|
| TES 14x6x22 <sup>1)</sup>   | 86498101  | White  | 0.55 x 0.24               | 0.87                     | 4.02               | FHW 110mm x 300m              | N46              | 14000        |
| TES 20x8x32 <sup>1)</sup>   | 86498102  | White  | 0.79 x 0.31               | 1.26                     | 4.09               | FHW 110mm x 300m              | N47              | 10000        |
| TES 20x8x32 <sup>1)</sup>   | 86498302  | Yellow | 0.79 x 0.31               | 1.26                     | 4.09               | FHW 110mm x 300m              | 047              | 10000        |
| TES 25x13x43 <sup>1)</sup>  | 86498104  | White  | 0.98 x 0.51               | 1.69                     | 4.09               | FHW 110mm x 300m              | N49              | 6000         |
| TES 25x13x43 <sup>1)</sup>  | 86498304  | Yellow | 0.98 x 0.51               | 1.69                     | 4.09               | FHW 110mm x 300m              | 049              | 6000         |
| TES 25x14x35 <sup>1)</sup>  | 86498103  | White  | 0.98 x 0.55               | 1.38                     | 4.09               | FHW 110mm x 300m              | N48              | 10000        |
| TES 25x17x70 <sup>1)</sup>  | 86498105  | White  | 0.98 x 0.67               | 2.76                     | 4.13               | FHW 110mm x 300m              | N50              | 4000         |
| TES 25x17x70 <sup>1)</sup>  | 86498305  | Yellow | 0.98 x 0.67               | 2.76                     | 4.13               | FHW 110mm x 300m              | 050              | 4000         |
| TES 25x25x70 <sup>1)</sup>  | 86498106  | White  | 0.98 x 0.98               | 2.76                     | 4.13               | FHW 110mm x 300m              | N51              | 4000         |
| TES 34x17x70 <sup>1)</sup>  | 86498107  | White  | 1.34 x 0.67               | 2.76                     | 4.13               | FHW 110mm x 300m              | N52              | v            |
| TES 34x26x100 <sup>1)</sup> | 86498108  | White  | 1.34 x 1.02               | 3.94                     | 4.17               | FHW 110mm x 300m              | N53              | 2000         |
| TES 34x26x100 <sup>1)</sup> | 86498308  | Yellow | 1.34 x 1.02               | 3.94                     | 4.17               | FHW 110mm x 300m              | 053              | 2000         |
| TES 34x32x150 <sup>1)</sup> | 86498109  | White  | 1.34 x 1.26               | 5.91                     | 4.17               | FHW 110mm x 300m              | N54              | 2000         |
| TES 34x32x150 <sup>1)</sup> | 86498309  | Yellow | 1.34 x 1.26               | 5.91                     | 4.17               | FHW 110mm x 300m              | 054              | 2000         |

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

[illegible]

## KCM-ECO manual cable labeling



## PRODUCT INFORMATION

The KCM-ECO label plates are made of PE composite material on a transparent carrier film and a 3" core. The KCM-ECO plates are used for subsequent labeling of cables and thicker wires with labels and cable ties.

The special feature of the KCM-ECO label plates is the eyelet open on one side for faster feed-through of the cable tie. The cable tie only has to be threaded in on one side.

KCM-ECO label plates for subsequent manual cable labeling are available in sizes 2.36 in x 0.47 in (60x12 mm and 75x15 mm) in white or yellow.

**Suitable for mp-TM series thermal transfer printers.**

## SPECIFICATIONS

|                                                                                     |                                                                                                     |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|  | -40.00 – 194.00 °F                                                                                  |
|  | Polyethylene (PE)                                                                                   |
|  | Can be inscribed with thermal transfer printer, 3 in roll core diameter<br>Primarily for inside use |
|  | High tensile strength and tear resistance<br>In compliance with the requirements of REACH and RoHS  |



| Type          | Order No. | Color  | Label size<br>length x width<br>inch | Roll<br>width<br>inch | Recommended<br>printer ribbon | Soft-<br>ware<br>type | Pack<br>qty. |
|---------------|-----------|--------|--------------------------------------|-----------------------|-------------------------------|-----------------------|--------------|
| KCM-ECO 60x12 | 86513301  | White  | 2.36 x 0.47                          | 2.60                  | FB-TM 110 mm x 300 m          | QE1                   | 1000         |
| KCM-ECO 60x12 | 86513351  | Yellow | 2.36 x 0.47                          | 2.60                  | FB-TM 110 mm x 300 m          | QE6                   | 1000         |
| KCM-ECO 75x15 | 86513300  | White  | 2.95 x 0.59                          | 3.19                  | FB-TM 110 mm x 300 m          | QE0                   | 1000         |
| KCM-ECO 75x15 | 86513350  | Yellow | 2.95 x 0.59                          | 3.19                  | FB-TM 110 mm x 300 m          | QE5                   | 1000         |

### KCL-ECO line labeling



## PRODUCT INFORMATION

The KCL-ECO label plates are made of PE composite material on a transparent carrier film and a 3" core; they are used for direct wire and cable labelling.

KCL-ECO label plates for wire and cable labeling are available in various sizes for cable diameters of 0.03 in to 0.28 in (0.75 mm to 7 mm) in white or yellow.

**Suitable for mp-TM series thermal transfer printers.**

## SPECIFICATIONS



-40.00 – 194.00 °F



Polyethylene (PE)



Can be inscribed with thermal transfer printer, 3 in roll core diameter  
Primarily for inside use



High tensile strength and tear resistance  
In compliance with the requirements of  
REACH and RoHS

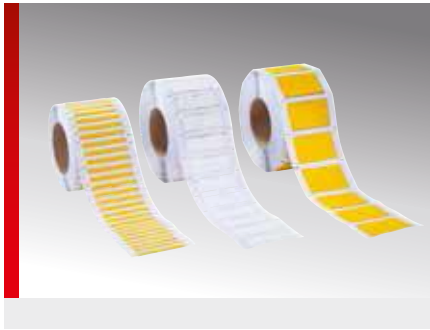


| Type           | Order No. | Color  | Label size<br>length x width<br>inch | Application range<br>from - to<br>Ø mm | Roll<br>width<br>inch | Recommended<br>printer ribbon | Soft-<br>ware<br>type | Pack<br>qty. |
|----------------|-----------|--------|--------------------------------------|----------------------------------------|-----------------------|-------------------------------|-----------------------|--------------|
| KCL-ECO 28x5.5 | 86513400  | White  | 1.1 x 0.22                           | 0.03 – 0.09                            | 3.78                  | FB-TM 110 mm x 300 m          | QF0                   | 3000         |
| KCL-ECO 28x5.5 | 86513450  | Yellow | 1.1 x 0.22                           | 0.03 – 0.09                            | 3.78                  | FB-TM 110 mm x 300 m          | QG0                   | 3000         |
| KCL-ECO 34x6.5 | 86513401  | White  | 1.34 x 0.26                          | 0.08 – 0.14                            | 3.03                  | FB-TM 110 mm x 300 m          | QF1                   | 3000         |
| KCL-ECO 34x6.5 | 86513451  | Yellow | 1.34 x 0.26                          | 0.08 – 0.14                            | 3.03                  | FB-TM 110 mm x 300 m          | QG1                   | 3000         |
| KCL-ECO 38x7.5 | 86513402  | White  | 1.5 x 0.3                            | 0.12 – 0.18                            | 3.35                  | FB-TM 110 mm x 300 m          | QF2                   | 3000         |
| KCL-ECO 38x7.5 | 86513452  | Yellow | 1.5 x 0.3                            | 0.12 – 0.18                            | 3.35                  | FB-TM 110 mm x 300 m          | QG2                   | 3000         |
| KCL-ECO 39x8.5 | 86513403  | White  | 1.54 x 0.33                          | 0.16 – 0.22                            | 3.43                  | FB-TM 110 mm x 300 m          | QF3                   | 3000         |
| KCL-ECO 39x8.5 | 86513453  | Yellow | 1.54 x 0.33                          | 0.16 – 0.22                            | 3.43                  | FB-TM 110 mm x 300 m          | QG3                   | 3000         |
| KCL-ECO 47x10  | 86513404  | White  | 1.85 x 0.39                          | 0.2 – 0.28                             | 4.06                  | FB-TM 110 mm x 300 m          | QF4                   | 3000         |
| KCL-ECO 47x10  | 86513454  | Yellow | 1.85 x 0.39                          | 0.2 – 0.28                             | 4.06                  | FB-TM 110 mm x 300 m          | QG4                   | 3000         |



| Type            | Order No. | Color  | Label size<br>length x width<br>inch | Roll<br>width<br>inch | Recommended<br>printer ribbon | Soft-<br>ware<br>type | Pack<br>qty. |
|-----------------|-----------|--------|--------------------------------------|-----------------------|-------------------------------|-----------------------|--------------|
| KCB-ECO 23.5x19 | 86513500  | White  | 0.93 x 0.75                          | 3.25                  | FB-TM 110 mm x 300 m          | QH0                   | 2000         |
| KCB-ECO 23.5x19 | 86513550  | Yellow | 0.93 x 0.75                          | 3.25                  | FB-TM 110 mm x 300 m          | QI0                   | 2000         |
| KCB-ECO 35x26   | 86513501  | White  | 1.38 x 1.02                          | 3.11                  | FB-TM 110 mm x 300 m          | QH1                   | 2000         |
| KCB-ECO 35x26   | 86513551  | Yellow | 1.38 x 1.02                          | 3.11                  | FB-TM 110 mm x 300 m          | QI1                   | 2000         |

## ST-BT-H Rail technology, taped



### PRODUCT INFORMATION

#### Polyolefine (P0) heat-shrink conduit, type ST-BT-H

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

The pre-perforated ST-BT-H 20/12 heat-shrink conduit is divided into a 0.79 in (20 mm) long section for cable identification and a 0.47 in (12 mm) long section, which contains information to simplify wiring the circuits. This section can be discarded after the circuit is wired. This method helps to significantly reduce the processing time

#### Properties

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

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

#### Standards

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

#### Rail standards

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

#### Printer ribbon

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

### SPECIFICATIONS

|                                                                                       |                                                                                                 |                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    | -67.00 – 221 °F                                                                                 |                                                                                       |                                                                                       |
|    | Polyolefin                                                                                      |                                                                                       |                                                                                       |
|    | ASTM D 635-HB                                                                                   |                                                                                       |                                                                                       |
|   | Heat-shrink conduit for railway technology; meets railway standard EN 45545-2 Tier 3x HL3 (R22) |                                                                                       |                                                                                       |
|  |            |  |  |

| Type                                                                                                      | Order No. | Color  | Marker length inch | Flat area inch | Max. wire cross section inch | Shrinkage area from – to Ø mm | Recommended printer ribbon | Software type | Pack qty. |
|-----------------------------------------------------------------------------------------------------------|-----------|--------|--------------------|----------------|------------------------------|-------------------------------|----------------------------|---------------|-----------|
| <b>Railway technology, taped, marking length 20 mm, with 12 mm printable info section</b>                 |           |        |                    |                |                              |                               |                            |               |           |
| ST-BT-H 20/12-3,2                                                                                         | 86531100  | White  | 0.79               | 0.24           | 0.13                         | 0.13 – 0.06                   | FB-BT 80mm x 300m          | A70           | 2000      |
| ST-BT-H 20/12-3,2                                                                                         | 86532100  | Yellow | 0.79               | 0.24           | 0.13                         | 0.13 – 0.06                   | FB-BT 80mm x 300m          | A74           | 2000      |
| ST-BT-H 20/12-4,8                                                                                         | 86531101  | White  | 0.79               | 0.33           | 0.19                         | 0.19 – 0.09                   | FB-BT 80mm x 300m          | A71           | 2000      |
| ST-BT-H 20/12-4,8                                                                                         | 86532101  | Yellow | 0.79               | 0.33           | 0.19                         | 0.19 – 0.09                   | FB-BT 80mm x 300m          | A75           | 2000      |
| ST-BT-H 20/12-12,7                                                                                        | 86531102  | White  | 0.79               | 0.82           | 0.50                         | 0.5 – 0.25                    | FB-BT 80mm x 300m          | A72           | 1000      |
| ST-BT-H 20/12-12,7                                                                                        | 86532102  | Yellow | 0.79               | 0.82           | 0.50                         | 0.5 – 0.25                    | FB-BT 80mm x 300m          | A76           | 1000      |
| ST-BT-H 20/12-25,4                                                                                        | 86531103  | White  | 0.79               | 1.59           | 1                            | 1.0 – 0.5                     | FB-BT 80mm x 300m          | A73           | 600       |
| ST-BT-H 20/12-25,4                                                                                        | 86532103  | Yellow | 0.79               | 1.59           | 1                            | 1.0 – 0.5                     | FB-BT 80mm x 300m          | A77           | 600       |
| <b>Railway technology, taped, marking length 20 mm, with 12 mm printable info section (max-size roll)</b> |           |        |                    |                |                              |                               |                            |               |           |
| ST-BT-H 20/12-3,2                                                                                         | 86531000  | White  | 0.79               | 0.24           | 0.13                         | 0.13 – 0.06                   | FB-BT 80mm x 300m          | A70           | 20000     |
| ST-BT-H 20/12-3,2                                                                                         | 86532000  | Yellow | 0.79               | 0.24           | 0.13                         | 0.13 – 0.06                   | FB-BT 80mm x 300m          | A74           | 20000     |

## ST-BT-H Rail technology, taped (Continued...)

[illegible]

## ST-BT-H rail technology, continuous



### PRODUCT INFORMATION

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

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

#### Properties

- Excellent printing properties
- Flat-rolled for thermal transfer method printing
- Halogen-free, thin-walled
- Shrink ratio of 2:1 (the recommended shrink range is -20 % of the max. value and +20 % of the min. value)
- Vehicle category 1a according to BS 6853 (1999)
- Fire resistance ASTM D 635-HB

- Shrink temperature >194 °F
- Application temperature -67 °F to +221 °F

#### Standards

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

#### Rail standards

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

#### Printer ribbon

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

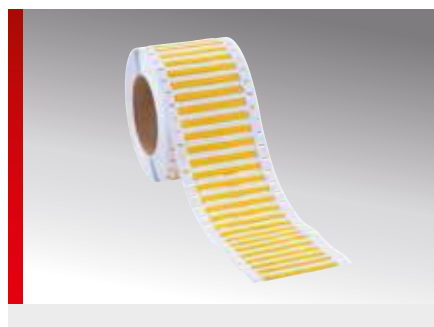
### SPECIFICATIONS

|                                                                                       |                                                                                                       |                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    | -67.00 – 221 °F                                                                                       |                                                                                       |                                                                                       |
|    | Polyolefin                                                                                            |                                                                                       |                                                                                       |
|    | ASTM D 635-HB                                                                                         |                                                                                       |                                                                                       |
|    | Heat-shrink conduit for railway technology;<br>meets railway standard EN 45545-2<br>Tier 3x HL3 (R22) |                                                                                       |                                                                                       |
|  |                  |  |  |

| Type                                                | Order No. | Color | Flat area<br>inch | Max. wire<br>cross section<br>inch | Shrinkage area<br>from – to<br>Ø mm | Recommended<br>printer ribbon | Software<br>type | Pack<br>qty. |
|-----------------------------------------------------|-----------|-------|-------------------|------------------------------------|-------------------------------------|-------------------------------|------------------|--------------|
| <b>Continuous roll ware; 22 m roll<sup>1)</sup></b> |           |       |                   |                                    |                                     |                               |                  |              |
| ST-BT-H 2,4 - 22m <sup>1)</sup>                     | 86533300  | White | 0.17              | 0.09                               | 0.09 – 0.05                         | FB-BT 40mm x 300m             | AB7              | 22           |
| ST-BT-H 3,2 - 22m <sup>1)</sup>                     | 86533301  | White | 0.24              | 0.13                               | 0.13 – 0.06                         | FB-BT 40mm x 300m             | AB8              | 22           |
| ST-BT-H 4,8 - 22m <sup>1)</sup>                     | 86533302  | White | 0.33              | 0.19                               | 0.19 – 0.09                         | FB-BT 40mm x 300m             | AB0              | 22           |

<sup>1)</sup> Information about packaging unit = roll length (m)

## ST-ECO taped



### PRODUCT INFORMATION

#### Polyolefine (PO) heat-shrink conduit, type ST-ECO

Flat, thin-walled heat-shrink conduit.

Flame retardant i.a.w. UL224. Shrink ratio 3:1

Particularly well-suited for use in labeling and identification processes.

#### Properties

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

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

Standard colors: White, yellow

Available upon request: Blue, red, green

#### Printer ribbon

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

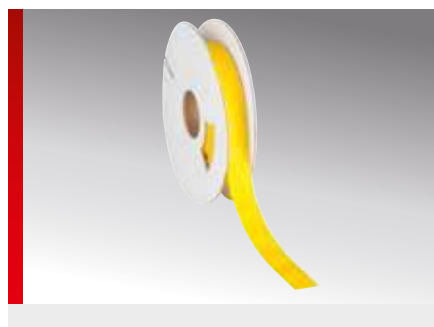
### SPECIFICATIONS

|                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    | -67.00 – 275 °F                                                                       |
|    | Polyolefin                                                                            |
|    | Highly flame retardant in accordance with UL 224/CSA                                  |
|   | Taped ECO heat-shrink conduits                                                        |
|  |  |

| Type                                                      | Order No. | Color  | Marker length<br>inch | Flat area<br>inch | Max. wire<br>cross section<br>inch | Shrinkage area<br>from – to<br>Ø mm | Recommended<br>printer ribbon | Software<br>type | Pack<br>qty. |
|-----------------------------------------------------------|-----------|--------|-----------------------|-------------------|------------------------------------|-------------------------------------|-------------------------------|------------------|--------------|
| <b>Roll material taped, marker length 16 mm (1.25 in)</b> |           |        |                       |                   |                                    |                                     |                               |                  |              |
| ST-ECO 16-2.4                                             | 86531200  | White  | 0.63                  | 0.17              | 0.09                               | 0.09 – 0.03                         | FHW 100mm x 300m              | AAA              | 4000         |
| ST-ECO 16-2.4                                             | 86532200  | Yellow | 0.63                  | 0.17              | 0.09                               | 0.09 – 0.03                         | FHW 100mm x 300m              | ABA              | 4000         |
| ST-ECO 16-3.2                                             | 86531201  | White  | 0.63                  | 0.22              | 0.13                               | 0.13 – 0.04                         | FHW 100mm x 300m              | AAB              | 4000         |
| ST-ECO 16-3.2                                             | 86532201  | Yellow | 0.63                  | 0.22              | 0.13                               | 0.13 – 0.04                         | FHW 100mm x 300m              | ABB              | 4000         |
| ST-ECO 16-4.8                                             | 86531202  | White  | 0.63                  | 0.30              | 0.19                               | 0.19 – 0.06                         | FHW 100mm x 300m              | AAC              | 4000         |
| ST-ECO 16-4.8                                             | 86532202  | Yellow | 0.63                  | 0.30              | 0.19                               | 0.19 – 0.06                         | FHW 100mm x 300m              | ABC              | 4000         |
| <b>Roll material taped, marker length 32 mm (1.25 in)</b> |           |        |                       |                   |                                    |                                     |                               |                  |              |
| ST-ECO 32-2.4                                             | 86531203  | White  | 1.26                  | 0.17              | 0.09                               | 0.09 – 0.03                         | FHW 100mm x 300m              | AAD              | 2000         |
| ST-ECO 32-2.4                                             | 86532203  | Yellow | 1.26                  | 0.17              | 0.09                               | 0.09 – 0.03                         | FHW 100mm x 300m              | ABD              | 2000         |
| ST-ECO 32-3.2                                             | 86531204  | White  | 1.26                  | 0.22              | 0.13                               | 0.13 – 0.04                         | FHW 100mm x 300m              | AAE              | 2000         |
| ST-ECO 32-3.2                                             | 86532204  | Yellow | 1.26                  | 0.22              | 0.13                               | 0.13 – 0.04                         | FHW 100mm x 300m              | ABE              | 2000         |
| ST-ECO 32-4.8                                             | 86531205  | White  | 1.26                  | 0.30              | 0.19                               | 0.19 – 0.06                         | FHW 100mm x 300m              | AAF              | 2000         |
| ST-ECO 32-4.8                                             | 86532205  | Yellow | 1.26                  | 0.30              | 0.19                               | 0.19 – 0.06                         | FHW 100mm x 300m              | ABF              | 2000         |
| ST-ECO 32-6.4                                             | 86531206  | White  | 1.26                  | 0.42              | 0.25                               | 0.25 – 0.08                         | FHW 100mm x 300m              | AAG              | 2000         |
| ST-ECO 32-6.4                                             | 86532206  | Yellow | 1.26                  | 0.42              | 0.25                               | 0.25 – 0.08                         | FHW 100mm x 300m              | ABG              | 2000         |
| ST-ECO 32-9.5                                             | 86531207  | White  | 1.26                  | 0.59              | 0.37                               | 0.37 – 0.13                         | FHW 100mm x 300m              | AAH              | 1000         |
| ST-ECO 32-9.5                                             | 86532207  | Yellow | 1.26                  | 0.59              | 0.37                               | 0.37 – 0.13                         | FHW 100mm x 300m              | ABH              | 1000         |
| <b>Roll material taped, marker length 64 mm (1.25 in)</b> |           |        |                       |                   |                                    |                                     |                               |                  |              |
| ST-ECO 64-2.4                                             | 86531208  | White  | 2.52                  | 0.17              | 0.09                               | 0.09 – 0.03                         | FHW 100mm x 300m              | AAI              | 1000         |



## ST-ECO continuous



### PRODUCT INFORMATION

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

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

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

#### Properties

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

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

Standard colors: White, yellow

Available upon request: Blue, red, green

#### Printer ribbon

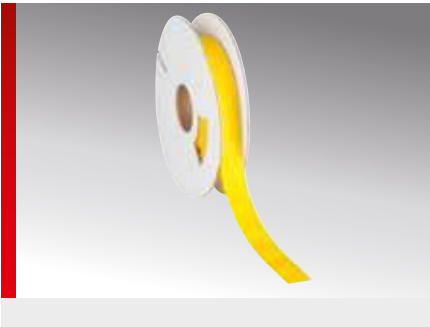
The matching printer ribbon is listed under "Labeling System" in the "Thermal Transfer System" section with "Consumables".

### SPECIFICATIONS

|                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    | -67.00 – 275 °F                                                                       |
|    | Polyolefin                                                                            |
|    | Highly flame retardant in accordance with UL 224/CSA                                  |
|    | Continuous ECO heat-shrink conduits                                                   |
|  |  |

| Type                                                           | Order No. | Color  | Flat area inch | Max. wire cross section inch | Shrinkage area from – to Ø mm | Recommended printer ribbon | Software type | Pack qty. |
|----------------------------------------------------------------|-----------|--------|----------------|------------------------------|-------------------------------|----------------------------|---------------|-----------|
| <b>Continuous roll ware; 39,37 ft (12 m) roll<sup>1)</sup></b> |           |        |                |                              |                               |                            |               |           |
| ST-ECO 4.8 - 12m <sup>1)</sup>                                 | 86531300  | White  | 0.30           | 0.19                         | 0.19 – 0.06                   | FHW 40mm x 300m            | AA0           | 12        |
| ST-ECO 4.8 - 12m <sup>1)</sup>                                 | 86532300  | Yellow | 0.30           | 0.19                         | 0.19 – 0.06                   | FHW 40mm x 300m            | AB0           | 12        |
| ST-ECO 6.4 - 12m <sup>1)</sup>                                 | 86531301  | White  | 0.42           | 0.25                         | 0.25 – 0.08                   | FHW 40mm x 300m            | AA1           | 12        |
| ST-ECO 6.4 - 12m <sup>1)</sup>                                 | 86532301  | Yellow | 0.42           | 0.25                         | 0.25 – 0.08                   | FHW 40mm x 300m            | AB1           | 12        |
| ST-ECO 9.5 - 12m <sup>1)</sup>                                 | 86531302  | White  | 0.59           | 0.37                         | 0.37 – 0.13                   | FHW 40mm x 300m            | AA2           | 12        |
| ST-ECO 9.5 - 12m <sup>1)</sup>                                 | 86532302  | Yellow | 0.59           | 0.37                         | 0.37 – 0.13                   | FHW 40mm x 300m            | AB2           | 12        |
| ST-ECO 12.7 - 12m <sup>1)</sup>                                | 86531303  | White  | 0.82           | 0.50                         | 0.50 – 0.17                   | FHW 40mm x 300m            | AA3           | 12        |
| ST-ECO 12.7 - 12m <sup>1)</sup>                                | 86532303  | Yellow | 0.82           | 0.50                         | 0.50 – 0.17                   | FHW 40mm x 300m            | AB3           | 12        |
| <b>Continuous roll ware; 29.53 ft (9 m) roll<sup>1)</sup></b>  |           |        |                |                              |                               |                            |               |           |
| ST-ECO 19.1 - 9m <sup>1)</sup>                                 | 86531304  | White  | 1.22           | 0.75                         | 0.75 – 0.25                   | FHW 40mm x 300m            | AA4           | 6         |
| ST-ECO 19.1 - 9m <sup>1)</sup>                                 | 86532304  | Yellow | 1.22           | 0.75                         | 0.75 – 0.25                   | FHW 40mm x 300m            | AB4           | 6         |
| ST-ECO 25.4 - 9m <sup>1)</sup>                                 | 86531305  | White  | 1.59           | 1                            | 1 – 0.33                      | FHW 40mm x 300m            | AA5           | 6         |
| ST-ECO 25.4 - 9m <sup>1)</sup>                                 | 86532305  | Yellow | 1.59           | 1                            | 1 – 0.33                      | FHW 40mm x 300m            | AB5           | 6         |
| ST-ECO 38.1 - 9m <sup>1)</sup>                                 | 86531306  | White  | 2.38           | 1.50                         | 1.50 – 0.50                   | FHW 40mm x 300m            | AA6           | 6         |
| ST-ECO 38.1 - 9m <sup>1)</sup>                                 | 86532306  | Yellow | 2.38           | 1.50                         | 1.50 – 0.50                   | FHW 40mm x 300m            | AB6           | 6         |
| <b>Continuous roll ware; 328 ft (100 m) roll<sup>1)</sup></b>  |           |        |                |                              |                               |                            |               |           |
| ST-ECO 4.8 - 100m <sup>1)</sup>                                | 86532310  | Yellow | 0.30           | 0.19                         | 0.19 – 0.06                   | FHW 40mm x 300m            | AB0           | 100       |

ST-ECO continuous (Continued...)



| Type                             | Order No. | Color  | Flat area inch | Max. wire cross section inch | Shrinkage area from – to Ø mm | Recommended printer ribbon | Software type | Pack qty. |
|----------------------------------|-----------|--------|----------------|------------------------------|-------------------------------|----------------------------|---------------|-----------|
| ST-ECO 6.4 - 100m <sup>1)</sup>  | 86532311  | Yellow | 0.42           | 0.25                         | 0.25 – 0.08                   | FHW 40mm x 300m            | AB1           | 100       |
| ST-ECO 9.5 - 100m <sup>1)</sup>  | 86531310  | White  | 0.59           | 0.37                         | 0.37 – 0.13                   | FHW 40mm x 300m            | AA2           | 100       |
| ST-ECO 9.5 - 100m <sup>1)</sup>  | 86532312  | Yellow | 0.59           | 0.37                         | 0.37 – 0.13                   | FHW 40mm x 300m            | AB2           | 100       |
| ST-ECO 12.7 - 100m <sup>1)</sup> | 86532313  | Yellow | 0.82           | 0.50                         | 0.50 – 0.17                   | FHW 40mm x 300m            | AB3           | 100       |

<sup>1)</sup>Information about packaging unit = roll length (m)

## Continuous heat-shrink conduit



### PRODUCT INFORMATION

Heat shrink tubes are not inscribable. They serve:

- To protect against moisture
- To protect against pollution

Shrinking by supply of heat.  
Available in dispenser boxes in different colors and sizes.

### SPECIFICATIONS

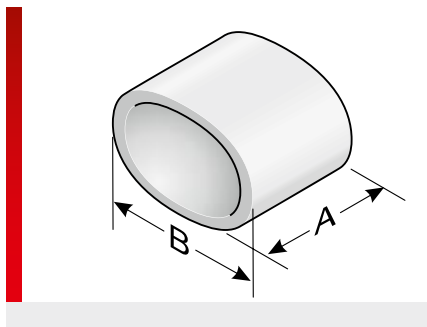
|                                                                                       |                                                         |
|---------------------------------------------------------------------------------------|---------------------------------------------------------|
|    | -67.00 – 275 °F                                         |
|    | Polyolefin                                              |
|    | Highly flame retardant in accordance with UL 224 – VW-1 |
|   | Not intended for labeling<br>Roll ware / strip material |
|  |                                                         |
|  |                                                         |
|  |                                                         |

| Type                                   | Order No. | Color          | Max. wire cross section inch | Shrinkage area from – to Ø mm | Pack qty. |
|----------------------------------------|-----------|----------------|------------------------------|-------------------------------|-----------|
| <b>Continuous roll ware; 15 m roll</b> |           |                |                              |                               |           |
| HSD-T2 Box 1,6/0,8 - 15m               | 88861100  | Red            | 0.06                         | 0.06 – 0.03                   | 1         |
| HSD-T2 Box 1,6/0,8 - 15m               | 88861200  | Blue           | 0.06                         | 0.06 – 0.03                   | 1         |
| HSD-T2 Box 1,6/0,8 - 15m               | 88861300  | Green / Yellow | 0.06                         | 0.06 – 0.03                   | 1         |
| HSD-T2 Box 1,6/0,8 - 15m               | 88861000  | Black          | 0.06                         | 0.06 – 0.03                   | 1         |
| HSD-T2 Box 2,4/1,2 - 15m               | 88861101  | Red            | 0.09                         | 0.09 – 0.05                   | 1         |
| HSD-T2 Box 2,4/1,2 - 15m               | 88861201  | Blue           | 0.09                         | 0.09 – 0.05                   | 1         |
| HSD-T2 Box 2,4/1,2 - 15m               | 88861301  | Green / Yellow | 0.09                         | 0.09 – 0.05                   | 1         |
| HSD-T2 Box 2,4/1,2 - 15m               | 88861001  | Black          | 0.09                         | 0.09 – 0.05                   | 1         |
| <b>Continuous roll ware; 10 m roll</b> |           |                |                              |                               |           |
| HSD-T2 Box 12,7/6,4 - 10m              | 88861106  | Red            | 0.50                         | 0.5 – 0.25                    | 1         |
| HSD-T2 Box 12,7/6,4 - 10m              | 88861206  | Blue           | 0.50                         | 0.5 – 0.25                    | 1         |
| HSD-T2 Box 12,7/6,4 - 10m              | 88861306  | Green / Yellow | 0.50                         | 0.5 – 0.25                    | 1         |
| HSD-T2 Box 12,7/6,4 - 10m              | 88861006  | Black          | 0.50                         | 0.5 – 0.25                    | 1         |
| HSD-T2 Box 0.13/1,6 - 10m              | 88861102  | Red            | 0.13                         | 0.13 – 0.06                   | 1         |
| HSD-T2 Box 0.13/1,6 - 10m              | 88861202  | Blue           | 0.13                         | 0.13 – 0.06                   | 1         |
| HSD-T2 Box 0.13/1,6 - 10m              | 88861302  | Green / Yellow | 0.13                         | 0.13 – 0.06                   | 1         |
| HSD-T2 Box 0.13/1,6 - 10m              | 88861002  | Black          | 0.13                         | 0.13 – 0.06                   | 1         |
| HSD-T2 Box 4,8/2,4 - 10m               | 88861103  | Red            | 0.19                         | 0.19 – 0.09                   | 1         |
| HSD-T2 Box 4,8/2,4 - 10m               | 88861203  | Blue           | 0.19                         | 0.19 – 0.09                   | 1         |
| HSD-T2 Box 4,8/2,4 - 10m               | 88861303  | Green / Yellow | 0.19                         | 0.19 – 0.09                   | 1         |
| HSD-T2 Box 4,8/2,4 - 10m               | 88861003  | Black          | 0.19                         | 0.19 – 0.09                   | 1         |
| HSD-T2 Box 6,4/3,2 - 10m               | 88861104  | Red            | 0.25                         | 0.25 – 0.13                   | 1         |
| HSD-T2 Box 6,4/3,2 - 10m               | 88861204  | Blue           | 0.25                         | 0.25 – 0.13                   | 1         |

## A white cardboard box for 'PROTECTANT' is shown at an angle. The box features a green and yellow striped label on its side and a barcode. The top of the box has the text 'PROTECTANT' and 'PROTECTANT' in a stylized font. The box is set against a light gray background with a red vertical bar on the left.

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## BK 23 idents white



### PRODUCT INFORMATION

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

BK 23: Label width 0.09 in (2.3 mm) (A); Label height 0.16 in (4.0 mm) (B) Font width 0.06 in (1.6 mm); font height 0.14 in (3.5 mm); black lettering

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

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

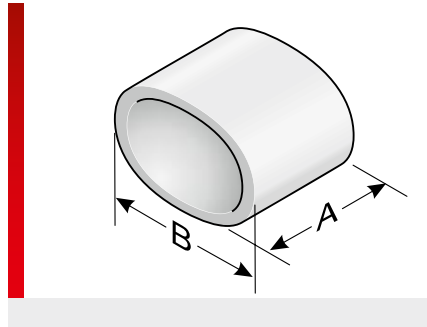
### SPECIFICATIONS

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



| Type                      | Order No. | Color | Pack qty. |
|---------------------------|-----------|-------|-----------|
| <b>Upper case letters</b> |           |       |           |
| A                         | 86131811  | White | 1000      |
| B                         | 86131812  | White | 1000      |
| C                         | 86131813  | White | 1000      |
| D                         | 86131814  | White | 1000      |
| E                         | 86131815  | White | 1000      |
| F                         | 86131816  | White | 1000      |
| G                         | 86131817  | White | 1000      |
| H                         | 86131818  | White | 1000      |
| I                         | 86131819  | White | 1000      |
| J                         | 86131820  | White | 1000      |
| K                         | 86131821  | White | 1000      |
| L                         | 86131822  | White | 1000      |
| M                         | 86131823  | White | 1000      |
| N                         | 86131824  | White | 1000      |
| O                         | 86131825  | White | 1000      |
| P                         | 86131826  | White | 1000      |
| Q                         | 86131827  | White | 1000      |
| R                         | 86131828  | White | 1000      |
| S                         | 86131829  | White | 1000      |
| T                         | 86131830  | White | 1000      |
| U                         | 86131831  | White | 1000      |
| V                         | 86131832  | White | 1000      |
| W                         | 86131833  | White | 1000      |

## BK 23 idents white (Continued...)

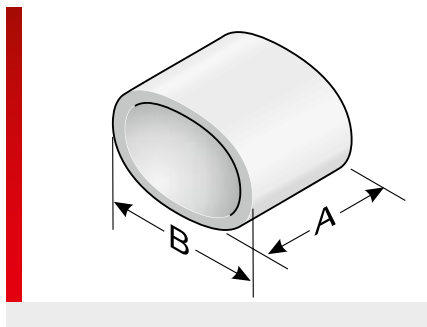
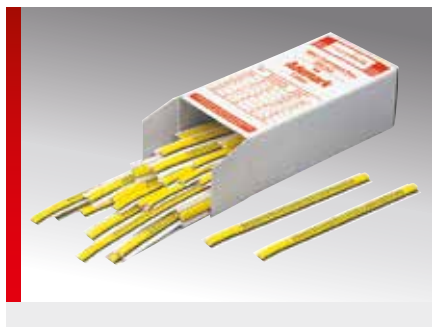


| Type                      | Order No. | Color | Pack qty. |
|---------------------------|-----------|-------|-----------|
| X                         | 86131834  | White | 1000      |
| Y                         | 86131835  | White | 1000      |
| Z                         | 86131836  | White | 1000      |
| <b>Lower case letters</b> |           |       |           |
| a                         | 86131837  | White | 1000      |
| b                         | 86131838  | White | 1000      |
| c                         | 86131839  | White | 1000      |
| d                         | 86131840  | White | 1000      |
| e                         | 86131841  | White | 1000      |
| f                         | 86131842  | White | 1000      |
| g                         | 86131843  | White | 1000      |
| h                         | 86131844  | White | 1000      |
| i                         | 86131845  | White | 1000      |
| j                         | 86131846  | White | 1000      |
| k                         | 86131847  | White | 1000      |
| l                         | 86131848  | White | 1000      |
| m                         | 86131849  | White | 1000      |
| n                         | 86131850  | White | 1000      |
| o                         | 86131851  | White | 1000      |
| p                         | 86131852  | White | 1000      |
| q                         | 86131853  | White | 1000      |
| r                         | 86131854  | White | 1000      |
| s                         | 86131855  | White | 1000      |
| t                         | 86131856  | White | 1000      |
| u                         | 86131857  | White | 1000      |
| v                         | 86131858  | White | 1000      |
| w                         | 86131859  | White | 1000      |
| x                         | 86131860  | White | 1000      |
| y                         | 86131861  | White | 1000      |
| z                         | 86131862  | White | 1000      |
| <b>Numbers</b>            |           |       |           |
| 0                         | 86131810  | White | 1000      |
| 1                         | 86131877  | White | 1000      |
| 2                         | 86131878  | White | 1000      |
| 3                         | 86131879  | White | 1000      |
| 4                         | 86131880  | White | 1000      |

### BK 23 idents white (Continued...)

[illegible]

## BK 23 idents yellow



### PRODUCT INFORMATION

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

BK 23: Label width 0.09 in (2.3 mm) (A); Label height 0.16 in (4.0 mm) (B) Font width 0.06 in (1.6 mm); font height 0.14 in (3.5 mm); black lettering

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

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

### SPECIFICATIONS

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



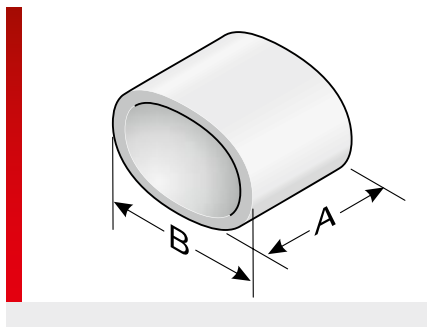
| Type                      | Order No. | Color  | Pack qty. |
|---------------------------|-----------|--------|-----------|
| <b>Upper case letters</b> |           |        |           |
| A                         | 86132012  | Yellow | 1000      |
| B                         | 86132014  | Yellow | 1000      |
| C                         | 86132016  | Yellow | 1000      |
| D                         | 86132018  | Yellow | 1000      |
| E                         | 86132020  | Yellow | 1000      |
| F                         | 86132022  | Yellow | 1000      |
| G                         | 86132024  | Yellow | 1000      |
| H                         | 86132026  | Yellow | 1000      |
| I                         | 86132028  | Yellow | 1000      |
| J                         | 86132030  | Yellow | 1000      |
| K                         | 86132032  | Yellow | 1000      |
| L                         | 86132034  | Yellow | 1000      |
| M                         | 86132036  | Yellow | 1000      |
| N                         | 86132038  | Yellow | 1000      |
| O                         | 86132040  | Yellow | 1000      |
| P                         | 86132042  | Yellow | 1000      |
| Q                         | 86132044  | Yellow | 1000      |
| R                         | 86132046  | Yellow | 1000      |
| S                         | 86132048  | Yellow | 1000      |
| T                         | 86132050  | Yellow | 1000      |
| U                         | 86132052  | Yellow | 1000      |
| V                         | 86132054  | Yellow | 1000      |
| W                         | 86132056  | Yellow | 1000      |

## BK 23 idents yellow (Continued...)

| Type                      | Order No. | Color  | Pack qty. |
|---------------------------|-----------|--------|-----------|
| X                         | 86132058  | Yellow | 1000      |
| Y                         | 86132060  | Yellow | 1000      |
| Z                         | 86132062  | Yellow | 1000      |
| <b>Lower case letters</b> |           |        |           |
| a                         | 86132064  | Yellow | 1000      |
| b                         | 86132066  | Yellow | 1000      |
| c                         | 86132068  | Yellow | 1000      |
| d                         | 86132070  | Yellow | 1000      |
| e                         | 86132072  | Yellow | 1000      |
| f                         | 86132074  | Yellow | 1000      |
| g                         | 86132076  | Yellow | 1000      |
| h                         | 86132078  | Yellow | 1000      |
| i                         | 86132080  | Yellow | 1000      |
| j                         | 86132082  | Yellow | 1000      |
| k                         | 86132084  | Yellow | 1000      |
| l                         | 86132086  | Yellow | 1000      |
| m                         | 86132088  | Yellow | 1000      |
| n                         | 86132090  | Yellow | 1000      |
| o                         | 86132092  | Yellow | 1000      |
| p                         | 86132094  | Yellow | 1000      |
| q                         | 86132096  | Yellow | 1000      |
| r                         | 86132098  | Yellow | 1000      |
| s                         | 86132100  | Yellow | 1000      |
| t                         | 86132102  | Yellow | 1000      |
| u                         | 86132104  | Yellow | 1000      |
| v                         | 86132106  | Yellow | 1000      |
| w                         | 86132108  | Yellow | 1000      |
| x                         | 86132110  | Yellow | 1000      |
| y                         | 86132112  | Yellow | 1000      |
| z                         | 86132114  | Yellow | 1000      |
| <b>Numbers</b>            |           |        |           |
| 0                         | 86132010  | Yellow | 1000      |
| 1                         | 86132144  | Yellow | 1000      |
| 2                         | 86132146  | Yellow | 1000      |
| 3                         | 86132148  | Yellow | 1000      |
| 4                         | 86132150  | Yellow | 1000      |
| 5                         | 86132152  | Yellow | 1000      |
| 6                         | 86132154  | Yellow | 1000      |
| 7                         | 86132156  | Yellow | 1000      |
| 8                         | 86132158  | Yellow | 1000      |
| 9                         | 86132160  | Yellow | 1000      |
| <b>Signs</b>              |           |        |           |
| +                         | 86132116  | Yellow | 1000      |
| -                         | 86132118  | Yellow | 1000      |



## BK 30 idents white



### PRODUCT INFORMATION

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

BK 30: Label width 0.12 in (3.0 mm) (A); Label height 0.16 in (4.0 mm) (B) Font width 0.08 in (2.0 mm); font height 0.14 in (3.5 mm); black lettering

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

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

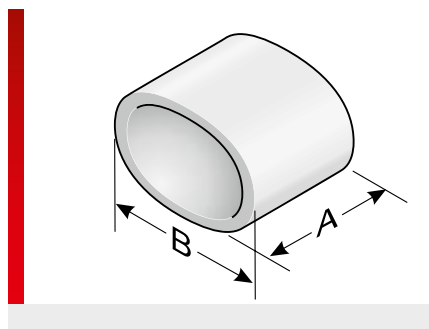
### SPECIFICATIONS

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



| Type                      | Order No. | Color | Pack qty. |
|---------------------------|-----------|-------|-----------|
| <b>Upper case letters</b> |           |       |           |
| A                         | 86131211  | White | 1000      |
| B                         | 86131212  | White | 1000      |
| C                         | 86131213  | White | 1000      |
| D                         | 86131214  | White | 1000      |
| E                         | 86131215  | White | 1000      |
| F                         | 86131216  | White | 1000      |
| G                         | 86131217  | White | 1000      |
| H                         | 86131218  | White | 1000      |
| I                         | 86131219  | White | 1000      |
| J                         | 86131220  | White | 1000      |
| K                         | 86131221  | White | 1000      |
| L                         | 86131222  | White | 1000      |
| M                         | 86131223  | White | 1000      |
| N                         | 86131224  | White | 1000      |
| O                         | 86131225  | White | 1000      |
| P                         | 86131226  | White | 1000      |
| Q                         | 86131227  | White | 1000      |
| R                         | 86131228  | White | 1000      |
| S                         | 86131229  | White | 1000      |
| T                         | 86131230  | White | 1000      |
| U                         | 86131231  | White | 1000      |
| V                         | 86131232  | White | 1000      |
| W                         | 86131233  | White | 1000      |

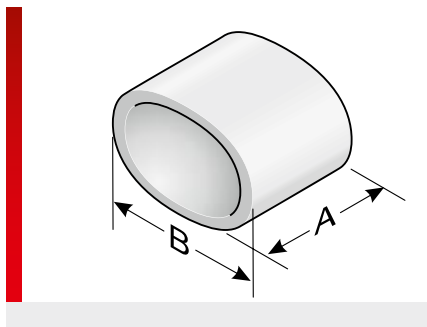
## BK 30 idents white (Continued...)



| Type                      | Order No. | Color | Pack qty. |
|---------------------------|-----------|-------|-----------|
| X                         | 86131234  | White | 1000      |
| Y                         | 86131235  | White | 1000      |
| Z                         | 86131236  | White | 1000      |
| <b>Lower case letters</b> |           |       |           |
| a                         | 86131237  | White | 1000      |
| b                         | 86131238  | White | 1000      |
| c                         | 86131239  | White | 1000      |
| d                         | 86131240  | White | 1000      |
| e                         | 86131241  | White | 1000      |
| f                         | 86131242  | White | 1000      |
| g                         | 86131243  | White | 1000      |
| h                         | 86131244  | White | 1000      |
| i                         | 86131245  | White | 1000      |
| j                         | 86131246  | White | 1000      |
| k                         | 86131247  | White | 1000      |
| l                         | 86131248  | White | 1000      |
| m                         | 86131249  | White | 1000      |
| n                         | 86131250  | White | 1000      |
| o                         | 86131251  | White | 1000      |
| p                         | 86131252  | White | 1000      |
| q                         | 86131253  | White | 1000      |
| r                         | 86131254  | White | 1000      |
| s                         | 86131255  | White | 1000      |
| t                         | 86131256  | White | 1000      |
| u                         | 86131257  | White | 1000      |
| v                         | 86131258  | White | 1000      |
| w                         | 86131259  | White | 1000      |
| x                         | 86131260  | White | 1000      |
| y                         | 86131261  | White | 1000      |
| z                         | 86131262  | White | 1000      |
| <b>Numbers</b>            |           |       |           |
| 0                         | 86131210  | White | 1000      |
| 1                         | 86131278  | White | 1000      |
| 2                         | 86131279  | White | 1000      |

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## BK 30 idents yellow



### PRODUCT INFORMATION

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

BK 30: Label width 0.12 in (3.0 mm) (A); Label height 0.16 in (4.0 mm) (B) Font width 0.08 in (2.0 mm); font height 0.14 in (3.5 mm); black lettering

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

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

### SPECIFICATIONS

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

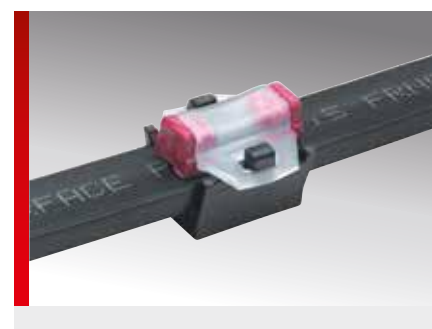
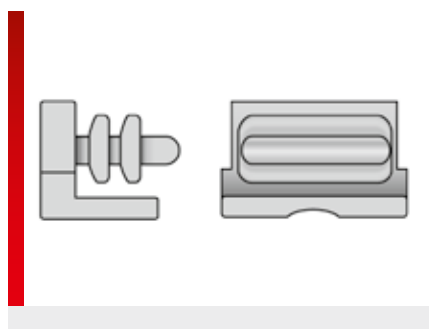


| Type                      | Order No. | Color  | Pack qty. |
|---------------------------|-----------|--------|-----------|
| <b>Upper case letters</b> |           |        |           |
| A                         | 86131411  | Yellow | 1000      |
| B                         | 86131412  | Yellow | 1000      |
| C                         | 86131413  | Yellow | 1000      |
| D                         | 86131414  | Yellow | 1000      |
| E                         | 86131415  | Yellow | 1000      |
| F                         | 86131416  | Yellow | 1000      |
| G                         | 86131417  | Yellow | 1000      |
| H                         | 86131418  | Yellow | 1000      |
| I                         | 86131419  | Yellow | 1000      |
| J                         | 86131420  | Yellow | 1000      |
| K                         | 86131421  | Yellow | 1000      |
| L                         | 86131422  | Yellow | 1000      |
| M                         | 86131423  | Yellow | 1000      |
| N                         | 86131424  | Yellow | 1000      |
| O                         | 86131425  | Yellow | 1000      |
| P                         | 86131426  | Yellow | 1000      |
| Q                         | 86131427  | Yellow | 1000      |
| R                         | 86131428  | Yellow | 1000      |
| S                         | 86131429  | Yellow | 1000      |
| T                         | 86131430  | Yellow | 1000      |
| U                         | 86131431  | Yellow | 1000      |
| V                         | 86131432  | Yellow | 1000      |
| W                         | 86131433  | Yellow | 1000      |

## BK 30 idents yellow (Continued...)

| Type                      | Order No. | Color  | Pack qty. |
|---------------------------|-----------|--------|-----------|
| X                         | 86131434  | Yellow | 1000      |
| Y                         | 86131435  | Yellow | 1000      |
| Z                         | 86131436  | Yellow | 1000      |
| <b>Lower case letters</b> |           |        |           |
| a                         | 86131437  | Yellow | 1000      |
| b                         | 86131438  | Yellow | 1000      |
| c                         | 86131439  | Yellow | 1000      |
| d                         | 86131440  | Yellow | 1000      |
| e                         | 86131441  | Yellow | 1000      |
| f                         | 86131442  | Yellow | 1000      |
| g                         | 86131443  | Yellow | 1000      |
| h                         | 86131444  | Yellow | 1000      |
| i                         | 86131445  | Yellow | 1000      |
| j                         | 86131446  | Yellow | 1000      |
| k                         | 86131447  | Yellow | 1000      |
| l                         | 86131448  | Yellow | 1000      |
| m                         | 86131449  | Yellow | 1000      |
| n                         | 86131450  | Yellow | 1000      |
| o                         | 86131451  | Yellow | 1000      |
| p                         | 86131452  | Yellow | 1000      |
| q                         | 86131453  | Yellow | 1000      |
| r                         | 86131454  | Yellow | 1000      |
| s                         | 86131455  | Yellow | 1000      |
| t                         | 86131456  | Yellow | 1000      |
| u                         | 86131457  | Yellow | 1000      |
| v                         | 86131458  | Yellow | 1000      |
| w                         | 86131459  | Yellow | 1000      |
| x                         | 86131460  | Yellow | 1000      |
| y                         | 86131461  | Yellow | 1000      |
| z                         | 86131462  | Yellow | 1000      |
| <b>Numbers</b>            |           |        |           |
| 0                         | 86131410  | Yellow | 1000      |
| 1                         | 86131610  | Yellow | 1000      |
| 2                         | 86131611  | Yellow | 1000      |
| 3                         | 86131612  | Yellow | 1000      |
| 4                         | 86131613  | Yellow | 1000      |
| 5                         | 86131614  | Yellow | 1000      |
| 6                         | 86131615  | Yellow | 1000      |
| 7                         | 86131616  | Yellow | 1000      |
| 8                         | 86131617  | Yellow | 1000      |
| 9                         | 86131618  | Yellow | 1000      |
| <b>Signs</b>              |           |        |           |
| +                         | 86131463  | Yellow | 1000      |
| -                         | 86131464  | Yellow | 1000      |









BEC terminal block label



PRODUCT INFORMATION

**BEC** - for terminal manufacturers **Beckhoff**. High-quality, halogen-free snap-in label plates. Labels available for mounting individually or in strips. The large printable area at the top allows room for individual project and terminal block reference, without the need for additional organizational systems.

SPECIFICATIONS

 -40.00 – 266.00 °F

 Polycarbonate (PC)

 V0

 Individual and strip mounting









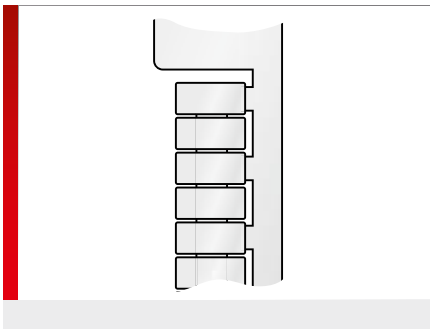




| Type      | Order No. | Color  | RAL equiv. | Label size * inch | Printable area * inch | No. characters/lines | No. of columns | No. per frame | Base plate | Software type | Pack qty. |
|-----------|-----------|--------|------------|-------------------|-----------------------|----------------------|----------------|---------------|------------|---------------|-----------|
| BEC 5/5-5 | 86401840  | White  | 9016       | 0.2 x 0.2         | 0.2 x 0.2             | 2 / 1                | 5              | 110           | GP5        | 265           | 1100      |
| BEC 5/5-5 | 86401841  | Yellow | 1018       | 0.2 x 0.2         | 0.2 x 0.2             | 2 / 1                | 5              | 110           | GP5        | 266           | 1100      |
| BEC 5/5-5 | 86401845  | Green  | 6018       | 0.2 x 0.2         | 0.2 x 0.2             | 2 / 1                | 5              | 110           | GP5        | 259           | 1100      |
| BEC 5/5-5 | 86401844  | Red    | 2012       | 0.2 x 0.2         | 0.2 x 0.2             | 2 / 1                | 5              | 110           | GP5        | 269           | 1100      |
| BEC 5/5-5 | 86401842  | Blue   | 5012       | 0.2 x 0.2         | 0.2 x 0.2             | 2 / 1                | 5              | 110           | GP5        | 267           | 1100      |
| BEC 5/5-5 | 86401843  | Orange | 2011       | 0.2 x 0.2         | 0.2 x 0.2             | 2 / 1                | 5              | 110           | GP5        | 268           | 1100      |

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

CAB terminal block label



PRODUCT INFORMATION

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

SPECIFICATIONS

 -40.00 – 266.00 °F

 Polycarbonate (PC)

 V0

 Single installation

 HF





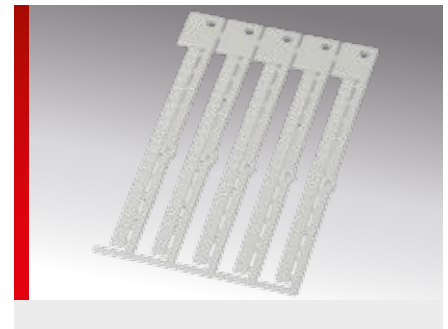
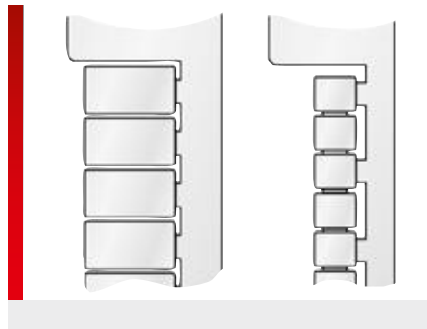
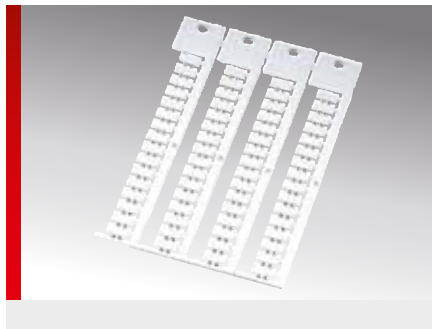




| Type     | Order No. | Color | RAL equiv. | Label size * inch | Printable area * inch | No. characters/lines | No. of columns | No. per frame | Base plate | Software type | Pack qty. |
|----------|-----------|-------|------------|-------------------|-----------------------|----------------------|----------------|---------------|------------|---------------|-----------|
| CAB 5/10 | 86403001  | White | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                | 4.00           | 72.00         | GP4        | 310           | 1008      |

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

## KAB terminal block label



### PRODUCT INFORMATION

**KAB** - for terminal manufacturers **Allen Bradley, ABB Entelec, Lütze, Woertz** and **Weidmüller (WDU, WPU)**.

High-quality, halogen-free snap-in label plates. Labels available for mounting individually or in strips.

The large printable area at the top allows room for individual project and terminal block reference, without the need for additional organizational systems.

### SPECIFICATIONS

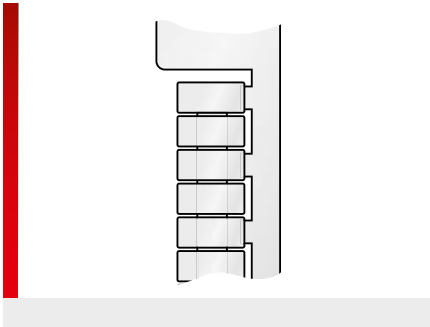
|                                                                                      |                               |
|--------------------------------------------------------------------------------------|-------------------------------|
|   | -40.00 – 266.00 °F            |
|   | Polycarbonate (PC)            |
|   | V0                            |
|  | Individual and strip mounting |



| Type                             | Order No. | Color | RAL equiv. | Label size * inch | Printable area * inch | No. characters/lines | No. of columns | No. per frame | Base plate | Software type | Pack qty. |
|----------------------------------|-----------|-------|------------|-------------------|-----------------------|----------------------|----------------|---------------|------------|---------------|-----------|
| <b>Single labels</b>             |           |       |            |                   |                       |                      |                |               |            |               |           |
| KAB 6/12                         | 86402014  | White | 9016       | 0.24 x 0.47       | 0.24 x 0.47           | 6 / 1                | 4.00           | 72.00         | GP4        | 112           | 1000      |
| <b>0.20 in (5 mm) grid strip</b> |           |       |            |                   |                       |                      |                |               |            |               |           |
| KAB 5/5.4-5                      | 86402004  | White | 9016       | 0.2 x 0.21        | 0.2 x 0.21            | 3 / 1                | 5              | 110           | GP5        | 55            | 1430      |
| KAB 5/9-5                        | 86402006  | White | 9016       | 0.2 x 0.35        | 0.2 x 0.35            | 5 / 1                | 4.00           | 88.00         | GP4        | 110           | 1400      |
| KAB 5/12-5                       | 86402008  | White | 9016       | 0.2 x 0.47        | 0.2 x 0.47            | 6 / 1                | 4.00           | 88.00         | GP4        | 111           | 1400      |
| <b>0.24 in (6 mm) grid strip</b> |           |       |            |                   |                       |                      |                |               |            |               |           |
| KAB 6/9-6                        | 86402010  | White | 9016       | 0.24 x 0.35       | 0.24 x 0.35           | 5 / 1                | 4.00           | 72.00         | GP4        | 50            | 1000      |
| KAB 6/10-6                       | 86402022  | White | 9016       | 0.24 x 0.39       | 0.24 x 0.39           | 5 / 1                | 4.00           | 72.00         | GP4        | 56            | 1000      |
| KAB 6/12-6                       | 86402012  | White | 9016       | 0.24 x 0.47       | 0.24 x 0.47           | 6 / 1                | 4.00           | 72.00         | GP4        | 51            | 1000      |
| <b>0.31 in (8 mm) grid strip</b> |           |       |            |                   |                       |                      |                |               |            |               |           |
| KAB 8/9-8                        | 86402016  | White | 9016       | 0.31 x 0.35       | 0.31 x 0.35           | 5 / 2                | 4.00           | 52.00         | GP4        | 53            | 1040      |
| KAB 8/12-8                       | 86402018  | White | 9016       | 0.31 x 0.47       | 0.31 x 0.47           | 6 / 2                | 4.00           | 52.00         | GP4        | 54            | 1040      |

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

KET terminal block label



PRODUCT INFORMATION

**KET** - for terminal manufacturers **ABB**, **ABB Entrellec** and **Schneider**.  
High-quality, halogen-free snap-in label plates. Labels available for mounting individually or in strips.

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

SPECIFICATIONS

 -40.00 – 266.00 °F

 Polycarbonate (PC)

 V0

 Individual and strip mounting

HF







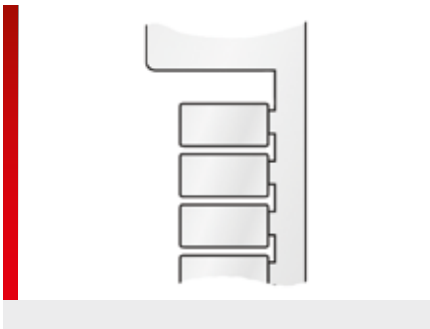
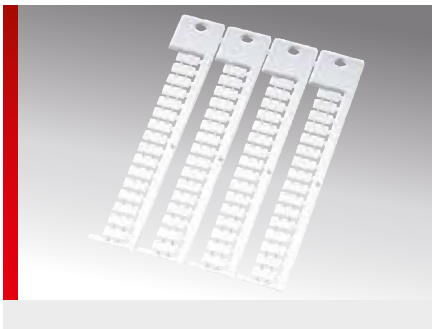




| Type                      | Order No. | Color | RAL equiv. | Label size * inch | Printable area * inch | No. characters/ lines | No. of columns | No. per frame | Base plate | Software type | Pack qty. |
|---------------------------|-----------|-------|------------|-------------------|-----------------------|-----------------------|----------------|---------------|------------|---------------|-----------|
| 0.20 in (5 mm) grid strip |           |       |            |                   |                       |                       |                |               |            |               |           |
| KET 5/10-5                | 86402610  | White | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                 | 4.00           | 84.00         | GP4E       | 121           | 1428      |
| KET SNK 5/12-5            | 86402612  | White | 9016       | 0.2 x 0.47        | 0.2 x 0.47            | 6 / 1                 | 4.00           | 80            | GP4E       | 124           | 2000      |
| 0.24 in (6 mm) grid strip |           |       |            |                   |                       |                       |                |               |            |               |           |
| KET 6/10-6                | 86402620  | White | 9016       | 0.24 x 0.39       | 0.24 x 0.39           | 5 / 1                 | 4.00           | 72.00         | GP4E       | 122           | 2016      |
| KET SNK 6/12-6            | 86402622  | White | 9016       | 0.24 x 0.47       | 0.24 x 0.47           | 6 / 1                 | 4.00           | 60.00         | GP4E       | 125           | 1500      |
| 0.31 in (8 mm) grid strip |           |       |            |                   |                       |                       |                |               |            |               |           |
| KET 8/10-8                | 86402630  | White | 9016       | 0.31 x 0.39       | 0.31 x 0.39           | 5 / 2                 | 4.00           | 56.00         | GP4E       | 123           | 1512      |
| KET SNK 8/12-8            | 86402632  | White | 9016       | 0.31 x 0.47       | 0.31 x 0.47           | 6 / 2                 | 4.00           | 40.00         | GP4E       | 126           | 1000      |

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

KLG terminal block label



PRODUCT INFORMATION

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

SPECIFICATIONS

 -40.00 – 266.00 °F

 Polycarbonate (PC)

 V0

 Single installation

HF





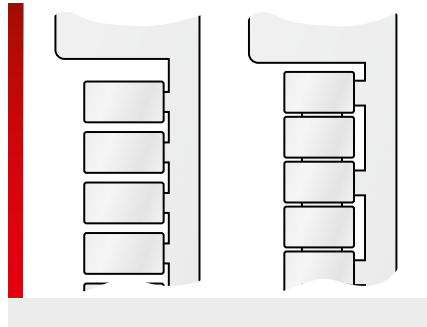
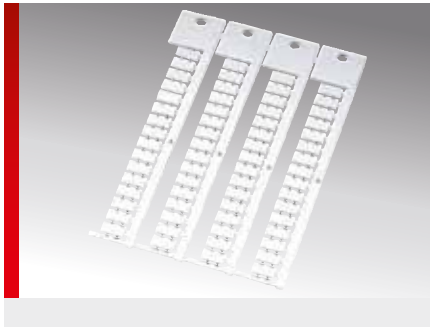




| Type     | Order No. | Color | RAL equiv. | Label size * inch | Printable area * inch | No. characters/lines | No. of columns | No. per frame | Base plate | Software type | Pack qty. |
|----------|-----------|-------|------------|-------------------|-----------------------|----------------------|----------------|---------------|------------|---------------|-----------|
| KLG 5/10 | 86421022  | White | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                | 4.00           | 64.00         | GP4        | 098           | 1024      |

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

## KMR terminal block label



### PRODUCT INFORMATION

**KMR** - for terminal manufacturers  
**Weidmüller, Conta Clip, ABB Entrellec,**  
**Klemsan, Schlegel and Wago.**  
 High-quality, halogen-free snap-in label  
 plates. Labels available for mounting individ-  
 ually or in strips.

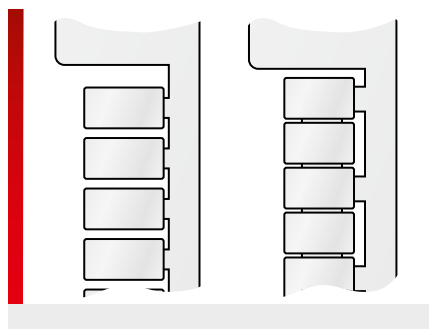
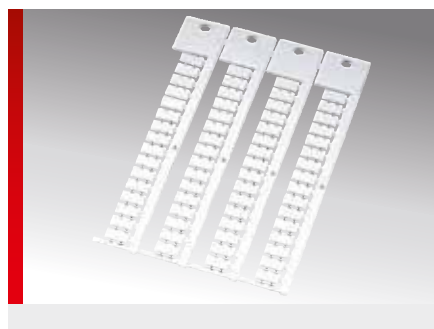
The large printable area at the top allows  
 room for individual project and terminal block  
 reference, without the need for additional  
 organizational systems.  
 Label plates designated as "5 - 6 mm pitch  
 strips" can be adapted to terminal block  
 widths of 5 mm or 6 mm by means of a  
 flexible connection.

### SPECIFICATIONS

|                                                                                       |                               |
|---------------------------------------------------------------------------------------|-------------------------------|
|    | -40.00 – 266.00 °F            |
|    | Polycarbonate (PC)            |
|    | V0                            |
|    | Individual and strip mounting |
|  |                               |
|  |                               |
|  |                               |
|  |                               |
|  |                               |
|  |                               |

| Type                               | Order No. | Color  | RAL equiv. | Label size * inch | Printable area * inch | No. characters/ lines | No. of columns | No. per frame | Base plate | Software type | Pack qty. |
|------------------------------------|-----------|--------|------------|-------------------|-----------------------|-----------------------|----------------|---------------|------------|---------------|-----------|
| <b>Single labels</b>               |           |        |            |                   |                       |                       |                |               |            |               |           |
| KMR 5/10                           | 86401010  | White  | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                 | 4.00           | 64.00         | GP4        | 30            | 1000      |
| KMR 5/15                           | 86401014  | White  | 9016       | 0.2 x 0.59        | 0.2 x 0.59            | 8 / 1                 | 4.00           | 64.00         | GP4        | 31            | 1000      |
| KMR 6/10                           | 86401018  | White  | 9016       | 0.24 x 0.39       | 0.24 x 0.39           | 5 / 1                 | 4.00           | 64.00         | GP4        | 32            | 1000      |
| KMR 6/15                           | 86401022  | White  | 9016       | 0.24 x 0.59       | 0.24 x 0.59           | 8 / 1                 | 4.00           | 64.00         | GP4        | 33            | 1000      |
| KMR 5/10 FA                        | 86401032  | White  | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                 | 4.00           | 64.00         | GP4        | 160           | 1024      |
| <b>0.14 in (3.5 mm) grid strip</b> |           |        |            |                   |                       |                       |                |               |            |               |           |
| KMR 3.5/7.5-3.5                    | 86401034  | White  | 9016       | 0.14 x 0.3        | 0.14 x 0.3            | 4 / 1                 | 4.00           | 120           | GP4        | 161           | 1200      |
| KMR 3.5/10-3.5                     | 86401046  | White  | 9016       | 0.14 x 0.39       | 0.14 x 0.39           | 5 / 1                 | 4.00           | 120           | GP4        | 423           | 1200      |
| <b>0.20 in (5 mm) grid strip</b>   |           |        |            |                   |                       |                       |                |               |            |               |           |
| KMR 5/7.5-5                        | 86401026  | White  | 9016       | 0.2 x 0.3         | 0.2 x 0.3             | 4 / 1                 | 4.00           | 88.00         | GP4        | 34            | 1400      |
| KMR 5/7.5-5                        | 86401036  | Yellow | 1018       | 0.2 x 0.3         | 0.2 x 0.3             | 4 / 1                 | 4.00           | 88.00         | GP4        | 34G           | 1400      |
| KMR 5/7.5-5                        | 86401044  | Red    | 2012       | 0.2 x 0.3         | 0.2 x 0.3             | 4 / 1                 | 4.00           | 88.00         | GP4        | 262           | 1400      |
| KMR 5/7.5-5                        | 86401040  | Blue   | 5012       | 0.2 x 0.3         | 0.2 x 0.3             | 4 / 1                 | 4.00           | 88.00         | GP4        | 260           | 1400      |
| KMR 5/7.5-5                        | 86401042  | Orange | 2011       | 0.2 x 0.3         | 0.2 x 0.3             | 4 / 1                 | 4.00           | 88.00         | GP4        | 261           | 1400      |
| KMR 5/10-5                         | 86401012  | White  | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                 | 4.00           | 88.00         | GP4        | 35            | 1400      |
| KMR 5/15-5                         | 86401016  | White  | 9016       | 0.2 x 0.59        | 0.2 x 0.59            | 8 / 1                 | 4.00           | 88.00         | GP4        | 36            | 1400      |
| KMR 5/15-5                         | 86401017  | Yellow | 1018       | 0.2 x 0.59        | 0.2 x 0.59            | 8 / 1                 | 4.00           | 88.00         | GP4        | 36G           | 1400      |
| <b>0.20 in (5.1 mm) grid strip</b> |           |        |            |                   |                       |                       |                |               |            |               |           |
| KMR 5/5-5.1                        | 86401011  | White  | 9016       | 0.2 x 0.2         | 0.2 x 0.2             | 2 / 1                 | 4.00           | 100           | GP5        | 319           | 1100      |
| KMR 5/7.5-5.1                      | 86401027  | White  | 9016       | 0.2 x 0.3         | 0.2 x 0.3             | 4 / 1                 | 4.00           | 84.00         | GP4        | 276           | 1008      |
| KMR 5/7.5-5.1                      | 86401037  | Yellow | 1018       | 0.2 x 0.3         | 0.2 x 0.3             | 4 / 1                 | 4.00           | 84.00         | GP4        | 286           | 1008      |

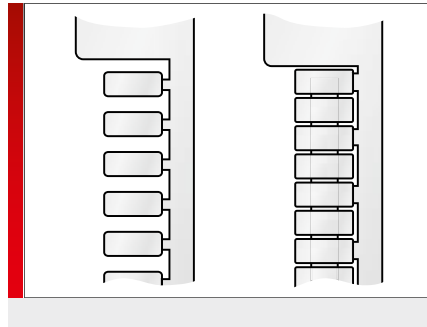
## KMR terminal block label (Continued...)



| Type                                          | Order No. | Color  | RAL equiv. | Label size * inch | Printable area * inch | No. characters/lines | No. of columns | No. per frame | Base plate | Software type | Pack qty. |
|-----------------------------------------------|-----------|--------|------------|-------------------|-----------------------|----------------------|----------------|---------------|------------|---------------|-----------|
| KMR 5/7.5-5.1                                 | 86401043  | Orange | 2011       | 0.2 x 0.3         | 0.2 x 0.3             | 4 / 1                | 4.00           | 84.00         | GP4        | 296           | 1008      |
| KMR 5/10-5.1                                  | 86401013  | White  | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                | 4.00           | 84.00         | GP4        | 277           | 1008      |
| KMR 5/15-5.1                                  | 86401015  | White  | 9016       | 0.2 x 0.59        | 0.2 x 0.59            | 8 / 1                | 4.00           | 84.00         | GP4        | 278           | 1008      |
| KMR 5/10-5.1 FA                               | 86401048  | White  | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                | 4.00           | 84.00         | GP4        | 487           | 1008      |
| <b>0.20 – 0.24 in (5 – 6 mm) pitch strips</b> |           |        |            |                   |                       |                      |                |               |            |               |           |
| KMR 5/10-5...6                                | 86401038  | White  | 9016       | 0.16 x 0.39       | 0.16 x 0.39           | 5 / 1                | 4.00           | 88.00         | GP4        | 35U           | 1400      |
| <b>0.24 in (6 mm) grid strip</b>              |           |        |            |                   |                       |                      |                |               |            |               |           |
| KMR 6/10-6                                    | 86401020  | White  | 9016       | 0.24 x 0.39       | 0.24 x 0.39           | 5 / 1                | 4.00           | 72.00         | GP4        | 37            | 1000      |
| KMR 6/15-6                                    | 86401024  | White  | 9016       | 0.24 x 0.59       | 0.24 x 0.59           | 8 / 1                | 4.00           | 72.00         | GP4        | 38            | 1000      |
| <b>0.24 in (6.1 mm) grid strip</b>            |           |        |            |                   |                       |                      |                |               |            |               |           |
| KMR 6/10-6.1                                  | 86401021  | White  | 9016       | 0.24 x 0.39       | 0.24 x 0.39           | 5 / 1                | 4.00           | 72.00         | GP4        | 37A           | 1008      |
| KMR 6/15-6.1                                  | 86401025  | White  | 9016       | 0.24 x 0.59       | 0.24 x 0.59           | 8 / 1                | 4.00           | 72.00         | GP4        | 38A           | 1008      |
| <b>0.26 in (6.7 mm) grid strip</b>            |           |        |            |                   |                       |                      |                |               |            |               |           |
| KMR 6/15-6.7                                  | 86401028  | White  | 9016       | 0.24 x 0.59       | 0.24 x 0.59           | 8 / 1                | 4.00           | 64.00         | GP4        | 39            | 1700      |

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

## KPX terminal block label



### PRODUCT INFORMATION

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

High-quality, halogen-free snap-in label plates. Labels available for mounting individually or in strips.

The large printable area at the top allows room for individual project and terminal block reference, without the need for additional organizational systems.

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

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

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

### SPECIFICATIONS

 -40.00 – 266.00 °F

 Polycarbonate (PC)

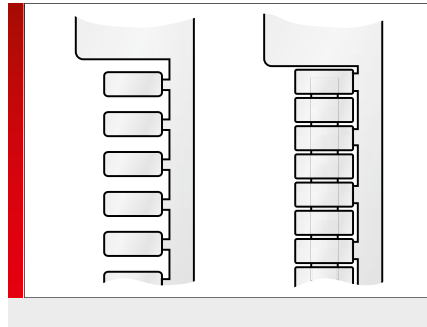
 V0

 Individual and strip mounting



| Type                               | Order No. | Color  | RAL equiv. | Label size * inch | Printable area * inch | No. characters/lines | No. of columns | No. per frame | Base plate | Software type | Pack qty. |
|------------------------------------|-----------|--------|------------|-------------------|-----------------------|----------------------|----------------|---------------|------------|---------------|-----------|
| <b>Single labels</b>               |           |        |            |                   |                       |                      |                |               |            |               |           |
| KPX 4/10                           | 86401224  | White  | 9016       | 0.16 x 0.39       | 0.16 x 0.39           | 5 / 1                | 4.00           | 64.00         | GP4        | 97            | 1024      |
| KPU 5/10                           | 86401231  | White  | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                | 4.00           | 72.00         | GP4        | 42E           | 1008      |
| KPX 6/10                           | 86401214  | White  | 9016       | 0.24 x 0.39       | 0.24 x 0.39           | 5 / 1                | 4.00           | 64.00         | GP4        | 40            | 1000      |
| KPX 6/15                           | 86401218  | White  | 9016       | 0.24 x 0.59       | 0.24 x 0.59           | 8 / 1                | 4.00           | 64.00         | GP4        | 41            | 1000      |
| <b>0.14 in (3.5 mm) grid strip</b> |           |        |            |                   |                       |                      |                |               |            |               |           |
| KPX 3.5/10-3.5                     | 86401225  | White  | 9016       | 0.14 x 0.39       | 0.14 x 0.39           | 5 / 1                | 4.00           | 120           | GP4        | 486           | 1800      |
| <b>0.16 in (4.0 mm) grid strip</b> |           |        |            |                   |                       |                      |                |               |            |               |           |
| KPX 4/10-4                         | 86401226  | White  | 9016       | 0.16 x 0.39       | 0.16 x 0.39           | 5 / 1                | 4.00           | 100           | GP4        | 98            | 1400      |
| <b>0.20 in (5 mm) grid strip</b>   |           |        |            |                   |                       |                      |                |               |            |               |           |
| KPX 5/10-5                         | 86401210  | White  | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                | 4.00           | 88.00         | GP4        | 42            | 1400      |
| KPX 5/10-5                         | 86401211  | Yellow | 1018       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                | 4.00           | 88.00         | GP4        | 42G           | 1400      |
| KPX 5/15-5                         | 86401212  | White  | 9016       | 0.2 x 0.59        | 0.2 x 0.59            | 8 / 1                | 4.00           | 88.00         | GP4        | 43            | 1400      |
| <b>0.20 in (5.2 mm) grid strip</b> |           |        |            |                   |                       |                      |                |               |            |               |           |
| KPX 5/10-5.2                       | 86401208  | White  | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                | 4.00           | 84.00         | GP4        | 279           | 1008      |
| KPX 5/10-5.2                       | 86401209  | Yellow | 1018       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                | 4.00           | 84.00         | GP4        | 289           | 1008      |
| KPX 5/15-5.2                       | 86401213  | White  | 9016       | 0.2 x 0.59        | 0.2 x 0.59            | 8 / 1                | 4.00           | 84.00         | GP4        | 311           | 1008      |

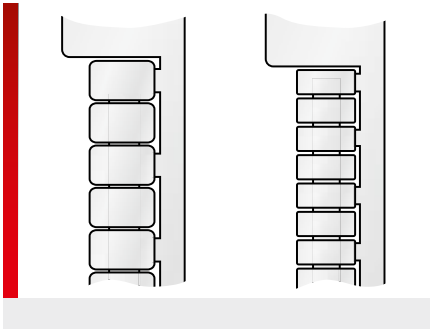
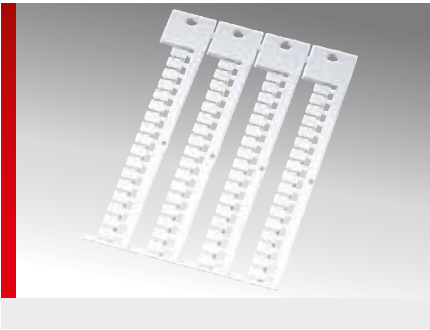
## KPX terminal block label (Continued...)



| Type                                                                   | Order No. | Color  | RAL equiv. | Label size * inch | Printable area * inch | No. characters/lines | No. of columns | No. per frame | Base plate | Software type | Pack qty. |
|------------------------------------------------------------------------|-----------|--------|------------|-------------------|-----------------------|----------------------|----------------|---------------|------------|---------------|-----------|
| <b>0.20 – 0.24 in (5 – 6 mm) pitch strips</b>                          |           |        |            |                   |                       |                      |                |               |            |               |           |
| KPX 5/10-5...6                                                         | 86401242  | White  | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                | 4.00           | 88.00         | GP4        | 42U           | 1400      |
| <b>0.24 in (6 mm) grid strip</b>                                       |           |        |            |                   |                       |                      |                |               |            |               |           |
| KPX 6/10-6                                                             | 86401216  | White  | 9016       | 0.24 x 0.39       | 0.24 x 0.39           | 5 / 1                | 4.00           | 72.00         | GP4        | 44            | 1000      |
| KPX 6/15-6                                                             | 86401220  | White  | 9016       | 0.24 x 0.59       | 0.24 x 0.59           | 8 / 1                | 4.00           | 72.00         | GP4        | 45            | 1000      |
| <b>0.24 in (6.2 mm) grid strip</b>                                     |           |        |            |                   |                       |                      |                |               |            |               |           |
| KPX 6/10-6.2                                                           | 86401217  | White  | 9016       | 0.24 x 0.39       | 0.24 x 0.39           | 5 / 1                | 4.00           | 68.00         | GP4        | 308           | 1020      |
| KPX 6/15-6.2                                                           | 86401219  | White  | 9016       | 0.24 x 0.59       | 0.24 x 0.59           | 8 / 1                | 4.00           | 68.00         | GP4        | 309           | 1020      |
| <b>0.27 in (6.8 mm) grid strip</b>                                     |           |        |            |                   |                       |                      |                |               |            |               |           |
| KPX 6/10-6.8                                                           | 86401222  | White  | 9016       | 0.24 x 0.39       | 0.24 x 0.39           | 5 / 1                | 4.00           | 64.00         | GP4        | 46            | 1000      |
| <b>0.14 in (3.5 mm) pitch strips in a row, flat foot (ZS)</b>          |           |        |            |                   |                       |                      |                |               |            |               |           |
| KPX 0.14/5-3,5 ZS                                                      | 86401223  | White  | 9016       | 0.14 x 0.2        | 0.14 x 0.2            | 2 / 1                | 5              | 150           | GP5        | 416           | 3000      |
| <b>0.17 in (4.2 mm) pitch strips in a row, flat foot (ZS)</b>          |           |        |            |                   |                       |                      |                |               |            |               |           |
| KPX 0.17/5-4,2 ZS                                                      | 86401248  | White  | 9016       | 0.17 x 0.2        | 0.17 x 0.2            | 2 / 1                | 5              | 125           | GP5        | 47Z           | 2500      |
| <b>0.20 in (5 mm) pitch strips in a row, flat foot (ZS)</b>            |           |        |            |                   |                       |                      |                |               |            |               |           |
| KPX 5/5-5 ZS                                                           | 86401232  | White  | 9016       | 0.2 x 0.2         | 0.2 x 0.2             | 2 / 1                | 5              | 110           | GP5        | 42Z           | 2090      |
| KPX 5/5-5 ZS                                                           | 86401233  | Yellow | 1018       | 0.2 x 0.2         | 0.2 x 0.2             | 2 / 1                | 5              | 110           | GP5        | 43G           | 2090      |
| KPX 5/7.5-5 ZS                                                         | 86401254  | White  | 9016       | 0.2 x 0.3         | 0.2 x 0.3             | 4 / 1                | 4.00           | 88.00         | GP4        | 49Z           | 1408      |
| KPX 5/10-5 ZS                                                          | 86401234  | White  | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                | 4.00           | 88.00         | GP4        | 43Z           | 1400      |
| <b>0.20 – 0.24 in (5 – 6 mm) pitch strips in a row, flat foot (ZS)</b> |           |        |            |                   |                       |                      |                |               |            |               |           |
| KPX 5/10-5...6 ZS                                                      | 86401244  | White  | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                | 4.00           | 88.00         | GP4        | 43U           | 1400      |
| <b>0.24 in (6 mm) pitch strips in a row, flat foot (ZS)</b>            |           |        |            |                   |                       |                      |                |               |            |               |           |
| KPX 6/5-6 ZS                                                           | 86401228  | White  | 9016       | 0.2 x 0.24        | 0.2 x 0.24            | 3 / 1                | 5              | 90            | GP5        | 44Z           | 2070      |
| KPX 6/10-6 ZS                                                          | 86401236  | White  | 9016       | 0.24 x 0.39       | 0.24 x 0.39           | 5 / 1                | 4.00           | 72.00         | GP4        | 45Z           | 1000      |
| <b>Single labels, flat foot (ZS)</b>                                   |           |        |            |                   |                       |                      |                |               |            |               |           |
| KPX 8.2/5 ZS                                                           | 86401252  | White  | 9016       | 0.32 x 0.2        | 0.32 x 0.2            | 2 / 2                | 5              | 65            | GP5        | 48Z           | 1040      |
| KPX 10/5 ZS                                                            | 86401246  | White  | 9016       | 0.39 x 0.2        | 0.39 x 0.2            | 2 / 2                | 5              | 55            | GP5        | 41Z           | 1320      |



# KSI terminal block label



## PRODUCT INFORMATION

**KSI** - for terminal manufacturers **Siemens**. High-quality, halogen-free snap-in label plates. Labels available for mounting individually or in strips. The large printable area at the top allows room for individual project and terminal block reference, without the need for additional organizational systems.

## SPECIFICATIONS

|                                                                                      |                               |
|--------------------------------------------------------------------------------------|-------------------------------|
|   | -40.00 – 266.00 °F            |
|   | Polycarbonate (PC)            |
|   | V0                            |
|  | Individual and strip mounting |

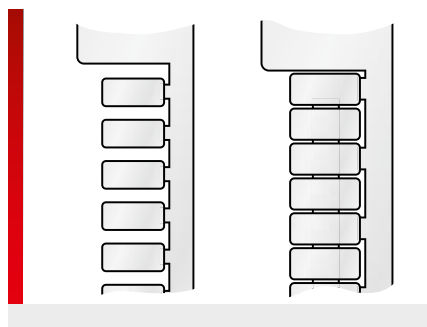
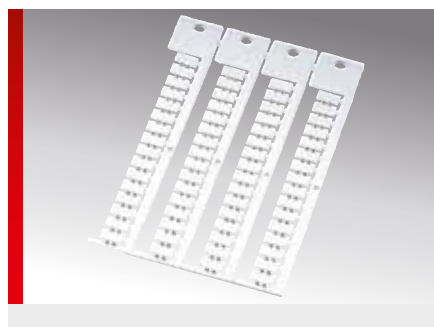
**HF**



| Type                             | Order No. | Color | RAL equiv. | Label size * inch | Printable area * inch | No. characters/ lines | No. of columns | No. per frame | Base plate | Software type | Pack qty. |
|----------------------------------|-----------|-------|------------|-------------------|-----------------------|-----------------------|----------------|---------------|------------|---------------|-----------|
| <b>Single labels</b>             |           |       |            |                   |                       |                       |                |               |            |               |           |
| KSI 5/7                          | 86401610  | White | 9016       | 0.2 x 0.28        | 0.2 x 0.28            | 3 / 1                 | 4.00           | 68.00         | GP4E       | 47            | 1020      |
| KSI 5/10                         | 86401612  | White | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                 | 4.00           | 68.00         | GP4E       | 48            | 1020      |
| <b>0.20 in (5 mm) grid strip</b> |           |       |            |                   |                       |                       |                |               |            |               |           |
| KSI 5/7-5                        | 86401620  | White | 9016       | 0.2 x 0.28        | 0.2 x 0.28            | 3 / 1                 | 4.00           | 80            | GP4E       | 133           | 1200      |
| KSI 5/10-5                       | 86401624  | White | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                 | 4.00           | 80            | GP4E       | 132           | 1200      |
| <b>0.24 in (6 mm) grid strip</b> |           |       |            |                   |                       |                       |                |               |            |               |           |
| KSI 6/7-6                        | 86401630  | White | 9016       | 0.24 x 0.28       | 0.24 x 0.28           | 3 / 1                 | 4.00           | 72.00         | GP4E       | 131           | 1080      |
| KSI 6/10-6                       | 86401634  | White | 9016       | 0.24 x 0.39       | 0.24 x 0.39           | 5 / 1                 | 4.00           | 72.00         | GP4E       | 130           | 1080      |

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

## KWI terminal block label



### PRODUCT INFORMATION

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

High-quality, halogen-free snap-in label plates. Labels available for mounting individually or in strips.

The large printable area at the top allows room for individual project and terminal block reference, without the need for additional organizational systems.

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

### SPECIFICATIONS

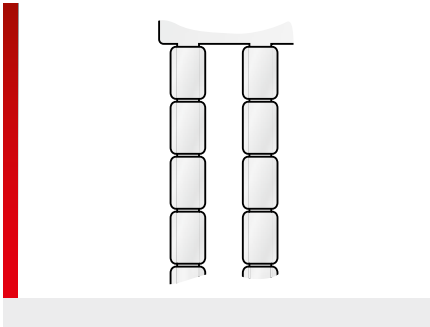
|                                                                                     |                               |
|-------------------------------------------------------------------------------------|-------------------------------|
|  | -40.00 – 266.00 °F            |
|  | Polycarbonate (PC)            |
|  | V0                            |
|  | Individual and strip mounting |



| Type                                          | Order No. | Color  | RAL equiv. | Label size * inch | Printable area * inch | No. characters/lines | No. of columns | No. per frame | Base plate | Software type | Pack qty. |
|-----------------------------------------------|-----------|--------|------------|-------------------|-----------------------|----------------------|----------------|---------------|------------|---------------|-----------|
| <b>Single labels</b>                          |           |        |            |                   |                       |                      |                |               |            |               |           |
| KWI 5/10                                      | 86401410  | White  | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                | 4.00           | 64.00         | GP4        | 20            | 1000      |
| KWI 5/15                                      | 86401414  | White  | 9016       | 0.2 x 0.59        | 0.2 x 0.59            | 8 / 1                | 4.00           | 64.00         | GP4        | 21            | 1000      |
| KWI 6/10                                      | 86401420  | White  | 9016       | 0.24 x 0.39       | 0.24 x 0.39           | 5 / 1                | 4.00           | 64.00         | GP4        | 22            | 1000      |
| KWI 6/15                                      | 86401426  | White  | 9016       | 0.24 x 0.59       | 0.24 x 0.59           | 8 / 1                | 4.00           | 64.00         | GP4        | 23            | 1000      |
| KWI 6/15                                      | 86401450  | Orange | 2011       | 0.24 x 0.59       | 0.24 x 0.59           | 8 / 1                | 4.00           | 64.00         | GP4        | 230           | 1000      |
| <b>0.20 in (5 mm) grid strip</b>              |           |        |            |                   |                       |                      |                |               |            |               |           |
| KWI 5/8.6-5                                   | 86401418  | White  | 9016       | 0.2 x 0.34        | 0.2 x 0.34            | 4 / 1                | 4.00           | 88.00         | GP4        | 24            | 1400      |
| KWI 5/10-5                                    | 86401412  | White  | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                | 4.00           | 88.00         | GP4        | 25            | 1400      |
| KWI 5/15-5                                    | 86401416  | White  | 9016       | 0.2 x 0.59        | 0.2 x 0.59            | 8 / 1                | 4.00           | 88.00         | GP4        | 26            | 1400      |
| <b>0.20 – 0.24 in (5 – 6 mm) pitch strips</b> |           |        |            |                   |                       |                      |                |               |            |               |           |
| KWI 5/10-5...6                                | 86401432  | White  | 9016       | 0.2 x 0.39        | 0.16 x 0.39           | 5 / 1                | 4.00           | 88.00         | GP4        | 25U           | 1400      |
| <b>0.24 in (6 mm) grid strip</b>              |           |        |            |                   |                       |                      |                |               |            |               |           |
| KWI 6/8.2-6                                   | 86401430  | White  | 9016       | 0.24 x 0.32       | 0.24 x 0.32           | 4 / 1                | 4.00           | 72.00         | GP4        | 270           | 1000      |
| KWI 6/10-6                                    | 86401422  | White  | 9016       | 0.24 x 0.39       | 0.24 x 0.39           | 5 / 1                | 4.00           | 72.00         | GP4        | 27            | 1000      |
| KWI 6/15-6                                    | 86401428  | White  | 9016       | 0.24 x 0.59       | 0.24 x 0.59           | 8 / 1                | 4.00           | 72.00         | GP4        | 28            | 1000      |
| <b>0.27 in (6.8 mm) grid strip</b>            |           |        |            |                   |                       |                      |                |               |            |               |           |
| KWI 6/10-6.8                                  | 86401424  | White  | 9016       | 0.24 x 0.39       | 0.24 x 0.39           | 5 / 1                | 4.00           | 64.00         | GP4        | 29            | 1000      |

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

TK terminal block label



PRODUCT INFORMATION

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

SPECIFICATIONS

 -40.00 – 266.00 °F

 Polyamide (PA)

 V2

 Individual and strip mounting

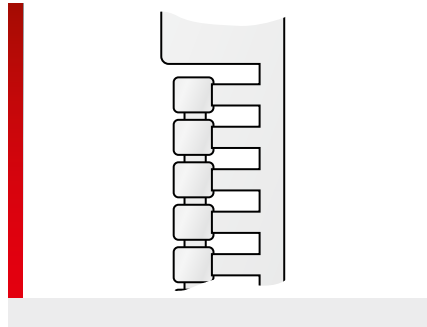




| Type                        | Order No. | Color | RAL equiv. | Label size *<br>inch | Printable area *<br>inch | No. characters/<br>lines | No. of col-<br>umns | No. per<br>frame | Base<br>plate | Soft-<br>ware<br>type | Pack<br>qty. |
|-----------------------------|-----------|-------|------------|----------------------|--------------------------|--------------------------|---------------------|------------------|---------------|-----------------------|--------------|
| 0.28 in (7 mm) grid strip   |           |       |            |                      |                          |                          |                     |                  |               |                       |              |
| TK 4,5-7,0                  | 86402412  | White | 9016       | 0.18 x 0.28          | 0.18 x 0.28              | 3 / 1                    | 5                   | 50               | GP1           | 90                    | 450          |
| 0.30 in (7.5 mm) grid strip |           |       |            |                      |                          |                          |                     |                  |               |                       |              |
| TK 4,5-7,5                  | 86402410  | White | 9016       | 0.18 x 0.3           | 0.18 x 0.3               | 4 / 1                    | 5                   | 50               | GP1           | 91                    | 450          |

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

## WGO terminal block label



### PRODUCT INFORMATION

**WGO** - for terminal manufacturers **Wago**, **Beckhoff** and **ABB Entelec**.  
High-quality, halogen-free snap-in label plates. Labels available for mounting individually or in strips.

The large printable area at the top allows room for individual project and terminal block reference, without the need for additional organizational systems.

### SPECIFICATIONS

|                                                                                      |                               |
|--------------------------------------------------------------------------------------|-------------------------------|
|   | -40.00 – 266.00 °F            |
|   | Polycarbonate (PC)            |
|   | V0                            |
|  | Individual and strip mounting |



| Type                                                                                               | Order No. | Color  | RAL equiv. | Label size * inch | Printable area * inch | No. characters/ lines | No. of columns | No. per frame | Base plate | Software type | Pack qty. |
|----------------------------------------------------------------------------------------------------|-----------|--------|------------|-------------------|-----------------------|-----------------------|----------------|---------------|------------|---------------|-----------|
| <b>4-0.17 in (4.2 mm) pitch strips in a row, with contoured foot</b>                               |           |        |            |                   |                       |                       |                |               |            |               |           |
| WGO 3.4/10-4...4.2 F                                                                               | 86401806  | White  | 9016       | 0.13 x 0.39       | 0.13 x 0.39           | 5 / 1                 | 4.00           | 100           | GP4        | 499           | 1300      |
| <b>0.16 in (4 mm) pitch svtrips in a row, with contoured foot</b>                                  |           |        |            |                   |                       |                       |                |               |            |               |           |
| WGO 4/10-4 F                                                                                       | 86401808  | White  | 9016       | 0.16 x 0.39       | 0.16 x 0.39           | 5 / 1                 | 4.00           | 100           | GP4        | 162           | 1300      |
| <b>0.20 in (5.1 mm) grid strip</b>                                                                 |           |        |            |                   |                       |                       |                |               |            |               |           |
| WGO 5/5-5.1 L                                                                                      | 86401870  | White  | 9016       | 0.2 x 0.2         | 0.2 x 0.2             | 2 / 1                 | 5              | 110           | GP5        | 541           | 1100      |
| WGO 5/5-5.1 L                                                                                      | 86401872  | Yellow | 1018       | 0.2 x 0.2         | 0.2 x 0.2             | 2 / 1                 | 5              | 110           | GP5        | 542           | 1100      |
| WGO 5/5-5.1 L                                                                                      | 86401874  | Red    | 2012       | 0.2 x 0.2         | 0.2 x 0.2             | 2 / 1                 | 5              | 110           | GP5        | 544           | 1100      |
| WGO 5/5-5.1 L                                                                                      | 86401876  | Green  | 6018       | 0.2 x 0.2         | 0.2 x 0.2             | 2 / 1                 | 5              | 110           | GP5        | 546           | 1100      |
| WGO 5/5-5.1 L                                                                                      | 86401878  | Blue   | 5012       | 0.2 x 0.2         | 0.2 x 0.2             | 2 / 1                 | 5              | 110           | GP5        | 543           | 1100      |
| WGO 5/5-5.1 L                                                                                      | 86401873  | Orange | 2011       | 0.2 x 0.2         | 0.2 x 0.2             | 2 / 1                 | 5              | 110           | GP5        | 545           | 1100      |
| <b>0.20 in (5 mm) grid strip</b>                                                                   |           |        |            |                   |                       |                       |                |               |            |               |           |
| WGO 5/10-5                                                                                         | 86401810  | White  | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                 | 4.00           | 88.00         | GP4        | 49            | 2000      |
| <b>0.20 in (5 mm) pitch strips in a row, with contoured foot</b>                                   |           |        |            |                   |                       |                       |                |               |            |               |           |
| WGO 5/10-5 F                                                                                       | 86401813  | White  | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                 | 4.00           | 88.00         | GP4        | 139           | 1400      |
| <b>0.20 in (5 mm) pitch strips in a row (can be applied to a 0.24 in (6 mm) pitch pattern)</b>     |           |        |            |                   |                       |                       |                |               |            |               |           |
| WGO 5/10-5...6 F                                                                                   | 86401812  | White  | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                 | 4.00           | 88.00         | GP4        | 141           | 1400      |
| <b>0.24 in (6.2 mm) pitch strips in a row (can be applied to a 0.30 in (7.5 mm) pitch pattern)</b> |           |        |            |                   |                       |                       |                |               |            |               |           |
| WGO 5.2/10-6.2...7.5 F                                                                             | 86401850  | White  | 9016       | 0.2 x 0.39        | 0.2 x 0.39            | 5 / 1                 | 4.00           | 68.00         | GP4        | 540           | 1088      |

## KCK-ECO terminal block labeling



## PRODUCT INFORMATION

The KCK-ECO label plates are made of PE composite material on a transparent carrier film and a 3" core; they can be used as an alternative to the PC labels for terminal block labelling.

The individual labels are strips with a length of 102 mm for insertion into the terminal cut-out and can be cut to the required length.

KCK-ECO label plates for terminal blocks are available in widths of 0.24 in (6.2 mm) and 0.39 in (10 mm) and **specifically for Phoenix terminal blocks** by design.

**Suitable for mp-TM series thermal transfer printers.**

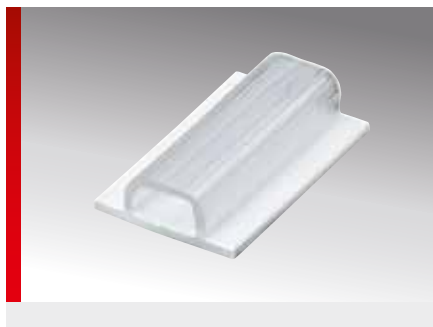
## SPECIFICATIONS

|                                                                                     |                                                                                                     |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|  | -40.00 – 194.00 °F                                                                                  |
|  | Polyethylene (PE)                                                                                   |
|  | Can be inscribed with thermal transfer printer, 3 in roll core diameter<br>Primarily for inside use |
|  | High tensile strength and tear resistance<br>In compliance with the requirements of REACH and RoHS  |

[illegible]



## KM 2 / KM 20 (adhesive holder)



## PRODUCT INFORMATION

High-quality, halogen-free adhesive label holders.

If the bonding surface is clean, dry and free of grease, the acrylic adhesive can form a permanent bond.

## SPECIFICATIONS

|                                                                                     |                          |
|-------------------------------------------------------------------------------------|--------------------------|
|  | -40.00 – 140 °F          |
|  | Polyvinyl chloride (PVC) |
|  | V0                       |
|  |                          |

[illegible]

## KM 6



## PRODUCT INFORMATION

High-quality, transparent label holder for component labeling.

Assembly is via snap-in action.

Mounting adapters make the label holders usable for component location labeling.

## SPECIFICATIONS



-40.00 - 140 °F



Polyvinyl chloride (PVC)



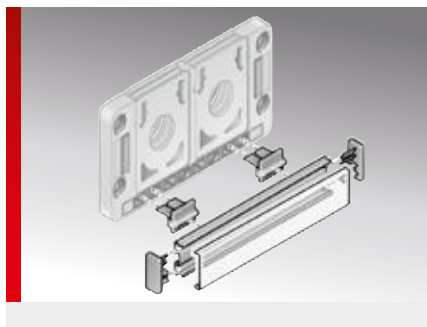
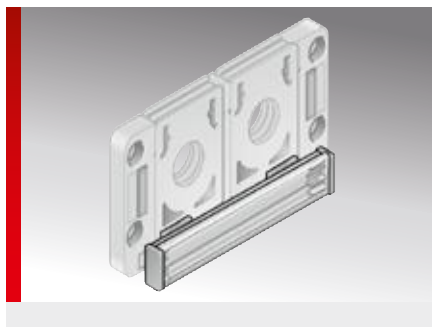
V0



| Type    | Order No. | Color               | Length<br>inch | Width<br>inch | Recommended<br>label<br>plate | Label<br>size<br>inch | No.<br>idents<br>BK23 / BK30 | Pack<br>qty. |
|---------|-----------|---------------------|----------------|---------------|-------------------------------|-----------------------|------------------------------|--------------|
| KM 6/15 | 86321030  | White / Transparent | 0.59           | 0.24          | KS 4/x                        | 0.16 x 0.59           | 6 / 5                        | 1000         |
| KM 6/18 | 86321032  | White / Transparent | 0.71           | 0.24          | KS 4/x                        | 0.16 x 0.71           | 7 / 6                        | 1000         |
| KM 6/21 | 86321034  | White / Transparent | 0.83           | 0.24          | KS 4/x                        | 0.16 x 0.83           | 9 / 7                        | 1000         |
| KM 6/27 | 86321036  | White / Transparent | 1.06           | 0.24          | KS 4/x                        | 0.16 x 1.06           | 11 / 9                       | 1000         |

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### SKDL/E (for cable entry plate KDL/E)



## PRODUCT INFORMATION

### Adapter set for KDL/E cable entry system

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

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

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

### An alternative to the adapter set

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

## SPECIFICATIONS

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

[illegible]



## BZS/F label rail - black - 0.35 and 0.59 in (9 and 15 mm)



BZS/F rail (cover and label not included in delivery)

### PRODUCT INFORMATION

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

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

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

- BZS/F: with pre-punched holes (distance between holes 3.94 in (100 mm); hole diameter 0.14 in (3.6 mm)).
- BZS/F K: with pre-punched holes (distance between holes 3.94 in (100 mm); hole diameter 0.14 in (3.6 mm)) and adhesive strip (adhesive 4930) as a mounting aid
- BZS/F SK: self-adhesive label rail (adhesive 1780) without drilled holes for uneven surfaces (hammered enamel)

### SPECIFICATIONS

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

| Type                                                                                                                                | Order No. | Color | Length<br>inch | Width<br>inch | Recommended<br>label<br>plate | Pack<br>qty. |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------|-------|----------------|---------------|-------------------------------|--------------|
| <b>Label rail with drilled holes at 0.35 in (9 mm) width</b>                                                                        |           |       |                |               |                               |              |
| BZS/F 09 - 500                                                                                                                      | 86301634  | Black | 19.69          | 0.35          | KS0 x/9                       | 25           |
| BZS/F 09 - 600                                                                                                                      | 86301636  | Black | 23.62          | 0.35          | KS0 x/9                       | 25           |
| BZS/F 09 - 1000                                                                                                                     | 86301638  | Black | 39.37          | 0.35          | KS0 x/9                       | 25           |
| BZS/F 09 - 1300                                                                                                                     | 86301640  | Black | 51.18          | 0.35          | KS0 x/9                       | 25           |
| <b>Label rail with drilled holes and adhesive strips (adhesive 4930) as assembly aid at 0.35 in (9 mm) width</b>                    |           |       |                |               |                               |              |
| BZS/F 09 - 500 K                                                                                                                    | 86301684  | Black | 19.69          | 0.35          | KS0 x/9                       | 25           |
| BZS/F 09 - 600 K                                                                                                                    | 86301686  | Black | 23.62          | 0.35          | KS0 x/9                       | 25           |
| BZS/F 09 - 1000 K                                                                                                                   | 86301688  | Black | 39.37          | 0.35          | KS0 x/9                       | 25           |
| BZS/F 09 - 1300 K                                                                                                                   | 86301690  | Black | 51.18          | 0.35          | KS0 x/9                       | 25           |
| <b>Self-adhesive label rail (adhesive 1780) without drilled holes for uneven surfaces (hammered enamel) at 0.35 in (9 mm) width</b> |           |       |                |               |                               |              |
| BZS/F 09 - 500 SK                                                                                                                   | 86301654  | Black | 19.69          | 0.35          | KS0 x/9                       | 25           |
| BZS/F 09 - 600 SK                                                                                                                   | 86301656  | Black | 23.62          | 0.35          | KS0 x/9                       | 25           |
| BZS/F 09 - 1000 SK                                                                                                                  | 86301658  | Black | 39.37          | 0.35          | KS0 x/9                       | 25           |
| BZS/F 09 - 1300 SK                                                                                                                  | 86301660  | Black | 51.18          | 0.35          | KS0 x/9                       | 25           |
| <b>Label rail with drilled holes at 0.59 in (15 mm) width</b>                                                                       |           |       |                |               |                               |              |
| BZS/F 15 - 500                                                                                                                      | 86301834  | Black | 19.69          | 0.59          | KS 15/x                       | 25           |
| BZS/F 15 - 600                                                                                                                      | 86301836  | Black | 23.62          | 0.59          | KS 15/x                       | 25           |
| BZS/F 15 - 1000                                                                                                                     | 86301838  | Black | 39.37          | 0.59          | KS 15/x                       | 25           |
| BZS/F 15 - 1300                                                                                                                     | 86301840  | Black | 51.18          | 0.59          | KS 15/x                       | 25           |



BZS/F rail (cover and label not included in delivery)

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

1147

|                                                                                     |                    |
|-------------------------------------------------------------------------------------|--------------------|
|  | -40.00 – 176.00 °F |
|  | Polyamide (PA)     |
|  | V0                 |

| Type                                                                 | Order No. | Color | Pack qty. |
|----------------------------------------------------------------------|-----------|-------|-----------|
| End cap for label rail BZS 9                                         |           |       |           |
| End cap for BZS 09                                                   | 86301219  | Black | 80        |
| End cap for label rail BZS 15                                        |           |       |           |
| End cap for BZS 15                                                   | 86301259  | Black | 80        |
| Terminal base for mounting distance plate / indicator / spacer block |           |       |           |
| Terminal socket                                                      | 86301210  | Black | 30        |
| Distance plate for terminal socket                                   |           |       |           |
| Distance plate terminal socket                                       | 86301218  | Black | 100       |
| Indicator for mounting the label rail                                |           |       |           |
| Indicator                                                            | 86301212  | Black | 100       |
| Spacer for mounting label rail                                       |           |       |           |
| Spacer                                                               | 86301214  | Black | 100       |
| Adapter for cable duct for mounting label rail                       |           |       |           |
| Cable duct holder                                                    | 86301216  | Black | 100       |
|                                                                      |           |       |           |
|                                                                      |           |       |           |
|                                                                      |           |       |           |
|                                                                      |           |       |           |
|                                                                      |           |       |           |

They are available in 0.35 and 0.59 in (9 and 15 mm) widths.

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

[illegible]

Type ABB



PRODUCT INFORMATION

**ABB** - for devices made by **ABB**, **Finder**, **Lumberg** and **Wago**.  
High-quality, halogen-free label plates to snap into devices.

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

SPECIFICATIONS



-40.00 – 266.00 °F



Polycarbonate (PC)



V0



Switch gear labeling







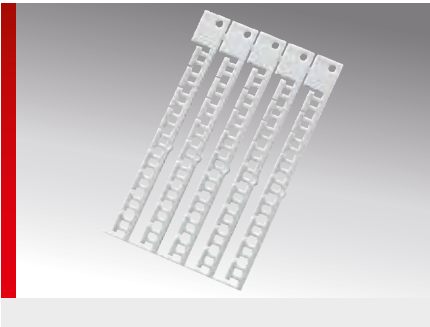




| Type     | Order No. | Color            | RAL equiv. | Label size *<br>inch | Printable area *<br>inch | No. characters/<br>lines | No. per frame | Base plate | Software type | Pack qty. |
|----------|-----------|------------------|------------|----------------------|--------------------------|--------------------------|---------------|------------|---------------|-----------|
| ABB 17x9 | 86421020  | White            | 9016       | 0.35 x 0.67          | 0.35 x 0.67              | 9 / 2                    | 24.00         | GP4        | 68            | 384       |
| ABB 17x9 | 86421021  | Pastel turquoise | 6034       | 0.35 x 0.67          | 0.35 x 0.67              | 9 / 2                    | 24.00         | GP4        | 68P           | 384       |

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

# Type B+R



## PRODUCT INFORMATION

**B&R - for B&R X20 switchgear.**  
High-quality, halogen-free label plates to snap into devices.

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

## SPECIFICATIONS

|                                                                                      |                                                |
|--------------------------------------------------------------------------------------|------------------------------------------------|
|   | -40.00 – 266.00 °F                             |
|   | Polycarbonate (PC)                             |
|   | V0                                             |
|  | For labeling equipment and connecting labeling |

**HF**









| Type                    | Order No. | Color | RAL equiv. | Label size * inch | Printable area * inch | No. characters/lines | No. per frame | Base plate | Software type | Pack qty. |
|-------------------------|-----------|-------|------------|-------------------|-----------------------|----------------------|---------------|------------|---------------|-----------|
| <b>Terminal marking</b> |           |       |            |                   |                       |                      |               |            |               |           |
| B+R 12x3.3              | 86402800  | White | 9016       | 0.13 x 0.47       | 0.13 x 0.47           | 6 / 1                | 45            | GP5        | 201           | 675       |
| B+R 12x3.3              | 86402802  | Red   | 2012       | 0.13 x 0.47       | 0.13 x 0.47           | 6 / 1                | 45            | GP5        | 204           | 675       |
| B+R 12x3.3              | 86402804  | Blue  | 5012       | 0.13 x 0.47       | 0.13 x 0.47           | 6 / 1                | 45            | GP5        | 203           | 675       |
| <b>Device marking</b>   |           |       |            |                   |                       |                      |               |            |               |           |
| B+R 12x6.7              | 86402810  | White | 9016       | 0.26 x 0.47       | 0.26 x 0.47           | 6 / 1                | 45            | GP5        | 230           | 675       |

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

Type KAB



PRODUCT INFORMATION

**KAB** - for devices made by **ABB**, **Allen Bradley** and **Finder**.  
High-quality, halogen-free label plates to snap into devices.

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

SPECIFICATIONS



-40.00 – 266.00 °F



Polycarbonate (PC)



V0



Switch gear labeling







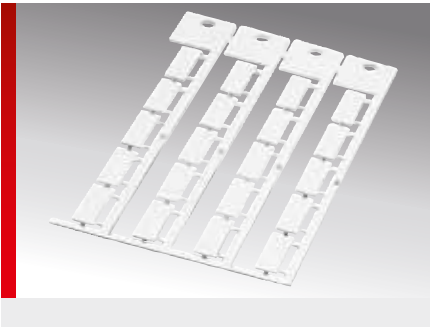




| Type      | Order No. | Color | Label size *<br>inch | Printable area *<br>inch | No. characters/<br>lines | No. per frame | Base plate | Software type | Pack qty. |
|-----------|-----------|-------|----------------------|--------------------------|--------------------------|---------------|------------|---------------|-----------|
| KAB 9x6   | 86421017  | White | 0.24 x 0.35          | 0.24 x 0.35              | 5 / 1                    | 50            | GP5        | 549           | 1200      |
| KAB 17x10 | 86421016  | White | 0.39 x 0.67          | 0.39 x 0.67              | 9 / 2                    | 30            | GP5        | 52            | 750       |

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

Type KES



PRODUCT INFORMATION

**KES** - for devices made by **Escha, Murrelektronik** and **Turck**.  
High-quality, halogen-free label plates to snap into devices.

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

SPECIFICATIONS



-40.00 – 266.00 °F



Polycarbonate (PC)



V0



Labeling of distribution boxes







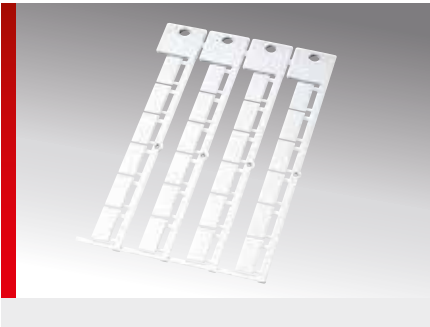




| Type     | Order No. | Color  | RAL equiv. | Label size *<br>inch | Printable area *<br>inch | No. characters/<br>lines | No. per frame | Base plate | Software type | Pack qty. |
|----------|-----------|--------|------------|----------------------|--------------------------|--------------------------|---------------|------------|---------------|-----------|
| KES 20x8 | 86421052  | White  | 9016       | 0.31 x 0.79          | 0.31 x 0.79              | 11 / 2                   | 20.00         | GP4        | 99            | 380       |
| KES 20x8 | 86421058  | Yellow | 1018       | 0.31 x 0.79          | 0.31 x 0.79              | 11 / 2                   | 20.00         | GP4        | 273           | 380       |
| KES 20x8 | 86421057  | Red    | 2012       | 0.31 x 0.79          | 0.31 x 0.79              | 11 / 2                   | 20.00         | GP4        | 443           | 380       |
| KES 20x8 | 86421061  | Green  | 6018       | 0.31 x 0.79          | 0.31 x 0.79              | 11 / 2                   | 20.00         | GP4        | 441           | 380       |
| KES 20x8 | 86421059  | Blue   | 5012       | 0.31 x 0.79          | 0.31 x 0.79              | 11 / 2                   | 20.00         | GP4        | 442           | 380       |

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

Type KMO



PRODUCT INFORMATION

**KMO** - for devices made by **Moeller**, **In-dramat** and **Murrelektronik**.  
High-quality, halogen-free label plates to snap into devices.

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

SPECIFICATIONS



-40.00 – 266.00 °F



Polycarbonate (PC)



V0



Switch gear labeling











| Type                                                                                             | Order No. | Color | RAL equiv. | Label size * inch | Printable area * inch | No. characters/lines | No. per frame | Base plate | Software type | Pack qty. |
|--------------------------------------------------------------------------------------------------|-----------|-------|------------|-------------------|-----------------------|----------------------|---------------|------------|---------------|-----------|
| KMO 17,5x8                                                                                       | 86421070  | White | 9016       | 0.31 x 0.69       | 0.31 x 0.69           | 9 / 2                | 24.00         | GP4        | 190           | 720       |
| Installation adapter towards the DILER and DILET devices, for devices without auxiliary contacts |           |       |            |                   |                       |                      |               |            |               |           |
| KMO adapter                                                                                      | 86421074  | White |            |                   |                       |                      |               |            |               | 380       |
| KSS 20x9 label plate required (please order separately)                                          |           |       |            |                   |                       |                      |               |            |               |           |

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

Type KPF



PRODUCT INFORMATION

**KPF** - for devices made by **Pepperl + Fuchs**.  
High-quality, halogen-free label plates to snap into devices.

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

SPECIFICATIONS



-40.00 – 266.00 °F



Polycarbonate (PC)



V0



Labeling of distribution boxes







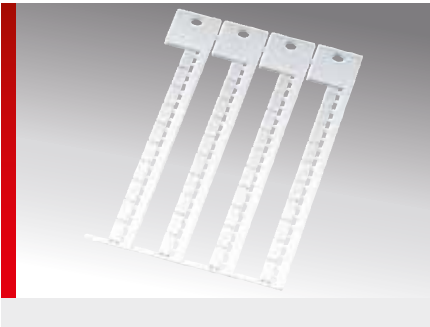




| Type       | Order No. | Color | RAL equiv. | Label size * inch | Printable area * inch | No. characters/lines | No. per frame | Base plate | Software type | Pack qty. |
|------------|-----------|-------|------------|-------------------|-----------------------|----------------------|---------------|------------|---------------|-----------|
| KPF 18.5x8 | 86421054  | White | 9016       | 0.31 x 0.73       | 0.31 x 0.73           | 10 / 2               | 65.62         | GP4        | 250           | 480       |

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

Type KS



PRODUCT INFORMATION

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

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

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

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

SPECIFICATIONS



-40.00 – 266.00 °F



Polycarbonate (PC)



V0



Switch gear labeling







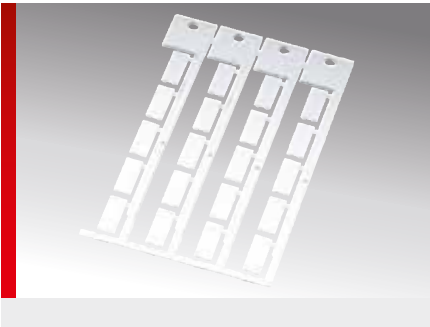




| Type                                                                         | Order No. | Color | RAL equiv. | Label size *<br>inch | Printable area *<br>inch | No. characters/<br>lines | No. per frame | Base plate | Software type | Pack qty. |
|------------------------------------------------------------------------------|-----------|-------|------------|----------------------|--------------------------|--------------------------|---------------|------------|---------------|-----------|
| For devices by Escha, IFM, Lumberg, Murrelektronik, Pepperl + Fuchs and Turk |           |       |            |                      |                          |                          |               |            |               |           |
| KS 5/10                                                                      | 86402210  | White | 9016       | 0.2 x 0.39           | 0.2 x 0.39               | 5 / 1                    | 40.00         | GP4E       | 88            | 1000      |
| For Murrplastik KDL/E cable entry system                                     |           |       |            |                      |                          |                          |               |            |               |           |
| KS KDL/E                                                                     | 86421090  | White | 9016       | 0.23 x 3.86          | 0.23 x 3.86              | 54 / 1                   | 4.00          | GP4        | 290           | 100       |

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

Type KSA



PRODUCT INFORMATION

**KSA** - for devices made by **AEG** and **Square D**.  
High-quality, halogen-free label plates to snap into devices.

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

SPECIFICATIONS



-40.00 – 266.00 °F



Polycarbonate (PC)



V0



Switch gear labeling







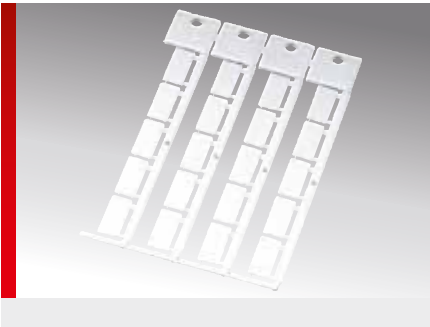




| Type     | Order No. | Color | RAL equiv. | Label size *<br>inch | Printable area *<br>inch | No. characters/<br>lines | No. per frame | Base plate | Software type | Pack qty. |
|----------|-----------|-------|------------|----------------------|--------------------------|--------------------------|---------------|------------|---------------|-----------|
| KSA 19x8 | 86421012  | White | 9016       | 0.31 x 0.75          | 0.31 x 0.75              | 10 / 2                   | 20.00         | GP4        | 70            | 380       |

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

Type KSF



PRODUCT INFORMATION

**KSF** - for devices made by **Festo, Lumberg, Moeller, Murrelektronik** and **Pepperl + Fuchs**.  
High-quality, halogen-free label plates to snap into devices.

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

SPECIFICATIONS



-40.00 – 266.00 °F



Polycarbonate (PC)



V0



Switch gear and valve labeling







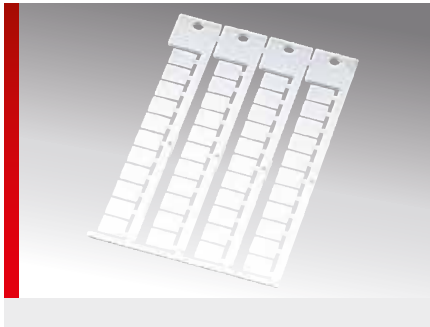




| Type      | Order No. | Color | RAL equiv. | Label size * inch | Printable area * inch | No. characters/lines | No. per frame | Base plate | Software type | Pack qty. |
|-----------|-----------|-------|------------|-------------------|-----------------------|----------------------|---------------|------------|---------------|-----------|
| KSF 4.5x9 | 86421046  | White | 9016       | 0.18 x 0.35       | 0.18 x 0.35           | 5 / 1                | 80            | GP4        | 176           | 1040      |
| KSF 10x8  | 86421050  | White | 9016       | 0.31 x 0.39       | 0.31 x 0.39           | 5 / 2                | 44.00         | none       | 175           | 440.00    |
| KSF 20x9  | 86421042  | White | 9016       | 0.35 x 0.79       | 0.35 x 0.79           | 11 / 2               | 20.00         | GP4        | 174           | 380       |

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

## KSK type (universal adhesive label)



### PRODUCT INFORMATION

**KSK type (universal adhesive label)** - for devices by various manufacturers.  
High-quality, halogen-free adhesive label plates.  
The large printable area at the top provides space for individual project and component

reference, without the need to organize additional systems.  
The flat construction allows the label holder to be used as a component location marker inside the top hat rail.

### SPECIFICATIONS

|                                                                                     |                                       |
|-------------------------------------------------------------------------------------|---------------------------------------|
|  | -40.00 – 266.00 °F                    |
|  | Polycarbonate (PC)                    |
|  | V0                                    |
|  | Equipment/equipment location labeling |

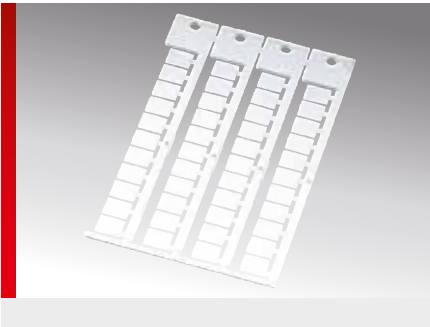


| Type     | Order No. | Color  | RAL equiv. | Label size * inch | Printable area * inch | No. characters/lines | No. per frame | Base plate | Software type | Pack qty. |
|----------|-----------|--------|------------|-------------------|-----------------------|----------------------|---------------|------------|---------------|-----------|
| KSK 5x15 | 86421092  | White  | 9016       | 0.2 x 0.59        | 0.2 x 0.59            | 8 / 1                | 64.00         | GP4        | 438           | 1024      |
| KSK 5x15 | 86421094  | Yellow | 1018       | 0.2 x 0.59        | 0.2 x 0.59            | 8 / 1                | 64.00         | GP4        | 495           | 1024      |
| KSK 6x15 | 86421093  | White  | 9016       | 0.24 x 0.59       | 0.24 x 0.59           | 8 / 1                | 64.00         | GP4        | 439           | 1024      |
| KSK 6x15 | 86421095  | Yellow | 1018       | 0.24 x 0.59       | 0.24 x 0.59           | 8 / 1                | 64.00         | GP4        | 497           | 1024      |
| KSK 11x9 | 86421034  | White  | 9016       | 0.35 x 0.43       | 0.35 x 0.43           | 6 / 2                | 44.00         | GP4        | 61            | 1400      |
| KSK 11x9 | 86421035  | Yellow | 1018       | 0.35 x 0.43       | 0.35 x 0.43           | 6 / 2                | 44.00         | GP4        | 61G           | 1400      |
| KSK 11x9 | 86421039  | Red    | 2012       | 0.35 x 0.43       | 0.35 x 0.43           | 6 / 2                | 44.00         | GP4        | 61R           | 1400      |
| KSK 15x9 | 86421036  | White  | 9016       | 0.35 x 0.59       | 0.35 x 0.59           | 8 / 2                | 44.00         | GP4        | 63            | 1400      |
| KSK 15x9 | 86421037  | Yellow | 1018       | 0.35 x 0.59       | 0.35 x 0.59           | 8 / 2                | 44.00         | GP4        | 63G           | 1400      |
| KSK 15x9 | 86421041  | Red    | 2012       | 0.35 x 0.59       | 0.35 x 0.59           | 8 / 2                | 44.00         | GP4        | 63R           | 1400      |
| KSK 20x9 | 86421038  | White  | 9016       | 0.35 x 0.79       | 0.35 x 0.79           | 11 / 2               | 20.00         | GP4        | 66            | 680       |
| KSK 20x9 | 86421088  | Yellow | 1018       | 0.35 x 0.79       | 0.35 x 0.79           | 11 / 2               | 20.00         | GP4        | 66G           | 680       |
| KSK 20x9 | 86421043  | Red    | 2012       | 0.35 x 0.79       | 0.35 x 0.79           | 11 / 2               | 20.00         | GP4        | 66R           | 680       |
| KSK 35x9 | 86421045  | White  | 9016       | 0.35 x 1.38       | 0.35 x 1.38           | 19 / 2               | 12.00         | GP4        | 58W           | 360       |
| KSK 35x9 | 86421047  | Yellow | 1018       | 0.35 x 1.38       | 0.35 x 1.38           | 19 / 2               | 12.00         | GP4        | 58G           | 360       |
| KSK 35x9 | 86421049  | Red    | 2012       | 0.35 x 1.38       | 0.35 x 1.38           | 19 / 2               | 12.00         | GP4        | 58R           | 360       |
| KSK 70x9 | 86421051  | White  | 9016       | 0.35 x 2.76       | 0.35 x 2.76           | 38 / 2               | 11            | GP5        | 57W           | 330       |
| KSK 70x9 | 86421053  | Yellow | 1018       | 0.35 x 2.76       | 0.35 x 2.76           | 38 / 2               | 11            | GP5        | 57G           | 330       |
| KSK 70x9 | 86421055  | Red    | 2012       | 0.35 x 2.76       | 0.35 x 2.76           | 38 / 2               | 11            | GP5        | 57R           | 330       |

No information about packing unit (VPE). Request a quotation for minimum order quantity please.

|          |          |     |      |             |             |       |       |     |     |      |
|----------|----------|-----|------|-------------|-------------|-------|-------|-----|-----|------|
| KSK 5x15 | 86421096 | Red | 2012 | 0.2 x 0.59  | 0.2 x 0.59  | 8 / 1 | 64.00 | GP4 | 496 | 1024 |
| KSK 6x15 | 86421097 | Red | 2012 | 0.24 x 0.59 | 0.24 x 0.59 | 8 / 1 | 64.00 | GP4 | 498 | 1024 |

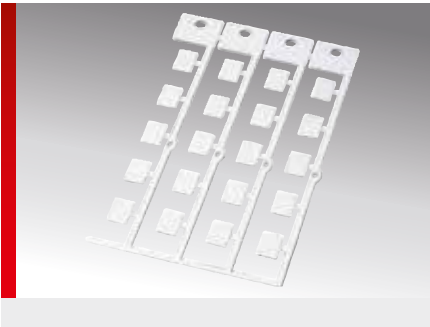
KSK type (universal adhesive label) (Continued...)



| Type             | Order No. | Color  | RAL equiv. | Label size * inch | Printable area * inch | No. characters/lines | No. per frame | Base plate | Software type | Pack qty. |
|------------------|-----------|--------|------------|-------------------|-----------------------|----------------------|---------------|------------|---------------|-----------|
| Long mat version |           |        |            |                   |                       |                      |               |            |               |           |
| KSK 20x9 L       | 86421240  | White  | 9016       | 0.35 x 0.79       | 0.35 x 0.79           | 11 / 2               | 20.00         | GP4        | 554           | 640       |
| KSK 20x9 L       | 86421242  | Yellow | 1018       | 0.35 x 0.79       | 0.35 x 0.79           | 11 / 2               | 20.00         | GP4        | 555           | 640       |
| KSK 20x9 L       | 86421244  | Red    | 2012       | 0.35 x 0.79       | 0.35 x 0.79           | 11 / 2               | 20.00         | GP4        | 556           | 640       |

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

Type KSL



PRODUCT INFORMATION

**KSL** - for devices made by **Bosch/Rexroth** and **Lumberg**.  
High-quality, halogen-free label plates to snap into devices.

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

SPECIFICATIONS



-40.00 – 266.00 °F



Polycarbonate (PC)



V0



Labeling of distribution boxes







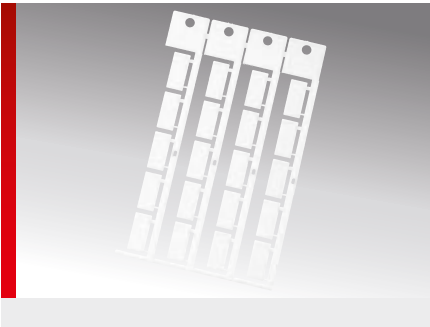




| Type     | Order No. | Color | RAL equiv. | Label size * inch | Printable area * inch | No. characters/lines | No. per frame | Base plate | Software type | Pack qty. |
|----------|-----------|-------|------------|-------------------|-----------------------|----------------------|---------------|------------|---------------|-----------|
| KSL 12x9 | 86421060  | White | 9016       | 0.35 x 0.47       | 0.35 x 0.47           | 6 / 2                | 20.00         | GP4        | 170           | 380       |
| KSL 20x9 | 86421062  | White | 9016       | 0.35 x 0.79       | 0.35 x 0.79           | 11 / 2               | 20.00         | GP4        | 171           | 380       |

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

Type KSS



PRODUCT INFORMATION

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

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

SPECIFICATIONS



-40.00 – 266.00 °F



Polycarbonate (PC)



V0



Switch gear labeling











| Type                   | Order No. | Color            | RAL equiv. | Label size *<br>inch | Printable area *<br>inch | No. characters/<br>lines | No. per frame | Base plate | Software type | Pack qty. |
|------------------------|-----------|------------------|------------|----------------------|--------------------------|--------------------------|---------------|------------|---------------|-----------|
| KSS 10x8 for ASI       | 86421006  | White            | 9016       | 0.31 x 0.39          | 0.31 x 0.39              | 5 / 2                    | 40.00         | GP4        | 77            | 800       |
| KSS 10x8 for ASI       | 86421008  | Pastel turquoise | 6034       | 0.31 x 0.39          | 0.31 x 0.39              | 5 / 2                    | 40.00         | GP4        | 78            | 800       |
| KSS 20x9 <sup>1)</sup> | 86421010  | White            | 9016       | 0.35 x 0.79          | 0.35 x 0.79              | 11 / 2                   | 20.00         | GP4        | 67            | 380       |
| KSS 20x9 <sup>1)</sup> | 86421011  | Yellow           | 1018       | 0.35 x 0.79          | 0.35 x 0.79              | 11 / 2                   | 20.00         | GP4        | 67G           | 380       |
| KSS 20x9 <sup>1)</sup> | 86421009  | Pastel turquoise | 6034       | 0.35 x 0.79          | 0.35 x 0.79              | 11 / 2                   | 20.00         | GP4        | 67P           | 380       |

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

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

Type KSZ



PRODUCT INFORMATION

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

SPECIFICATIONS



-40.00 – 266.00 °F



Polycarbonate (PC)



V0



Connection labeling











| Type     | Order No. | Color | RAL equiv. | Label size *<br>inch | Printable area *<br>inch | No. characters/<br>lines | No. per frame | Base plate | Software type | Pack qty. |
|----------|-----------|-------|------------|----------------------|--------------------------|--------------------------|---------------|------------|---------------|-----------|
| KSZ 20x7 | 86421040  | White | 9016       | 0.28 x 0.79          | 0.28 x 0.79              | 11 / 2                   | 20.00         | GP1        | 200           | 100       |

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

Type KTE



PRODUCT INFORMATION

**KTE** - for devices made by **ABB**, **IFM**, **Murrelektronik** and **Telemecanique**.  
High-quality, halogen-free label plates to snap into devices.

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

SPECIFICATIONS



-40.00 – 266.00 °F



Polycarbonate (PC)



V0



Switch gear labeling











| Type     | Order No. | Color | RAL equiv. | Label size * inch | Printable area * inch | No. characters/lines | No. per frame | Base plate | Software type | Pack qty. |
|----------|-----------|-------|------------|-------------------|-----------------------|----------------------|---------------|------------|---------------|-----------|
| KTE 17x8 | 86421018  | White | 9016       | 0.31 x 0.67       | 0.31 x 0.67           | 9 / 2                | 20.00         | GP4        | 73            | 340       |
| KTE 21x8 | 86421014  | White | 9016       | 0.31 x 0.83       | 0.31 x 0.83           | 11 / 2               | 20.00         | GP4        | 72            | 340       |

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

# Type SKS



## PRODUCT INFORMATION

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

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

## SPECIFICATIONS

-  -40.00 – 266.00 °F
-  Polycarbonate (PC)
-  V0
-  Switch gear labeling



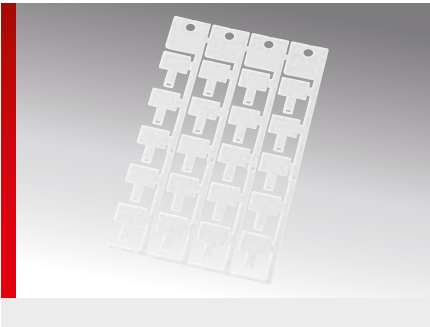




| Type                                                  | Order No. | Color            | RAL equiv. | Label size * inch | Printable area * inch | No. characters/lines | No. per frame | Base plate | Software type | Pack qty. |
|-------------------------------------------------------|-----------|------------------|------------|-------------------|-----------------------|----------------------|---------------|------------|---------------|-----------|
| <b>Label for Siemens SIRIUS series</b>                |           |                  |            |                   |                       |                      |               |            |               |           |
| SKS 10x7 Sirius                                       | 86401652  | White            | 9016       | 0.28 x 0.39       | 0.28 x 0.39           | 5 / 2                | 48            | GP4        | 96            | 816       |
| SKS 10x7 Sirius                                       | 86401668  | Yellow           | 1018       | 0.28 x 0.39       | 0.28 x 0.39           | 5 / 2                | 48            | GP4        | 136           | 816       |
| SKS 10x7 Sirius                                       | 86401662  | Pastel turquoise | 6034       | 0.28 x 0.39       | 0.28 x 0.39           | 5 / 2                | 48            | GP4        | 096           | 816       |
| SKS 11x4 Sirius                                       | 86401658  | White            | 9016       | 0.16 x 0.43       | 0.16 x 0.43           | 6 / 1                | 80            | GP4        | 134           | 1200      |
| SKS 11x4 Sirius                                       | 86401666  | Yellow           | 1018       | 0.16 x 0.43       | 0.16 x 0.43           | 6 / 1                | 80            | GP4        | 137           | 1200      |
| SKS 11x4 Sirius                                       | 86401660  | Pastel turquoise | 6034       | 0.16 x 0.43       | 0.16 x 0.43           | 6 / 1                | 80            | GP4        | 135           | 1200      |
| SKS 20x7 Sirius                                       | 86401656  | White            | 9016       | 0.28 x 0.79       | 0.28 x 0.79           | 11 / 2               | 20.00         | GP4        | 95            | 340       |
| SKS 20x7 Sirius                                       | 86401669  | Yellow           | 1018       | 0.28 x 0.79       | 0.28 x 0.79           | 11 / 2               | 20.00         | GP4        | 138           | 340       |
| SKS 20x7 Sirius                                       | 86401664  | Pastel turquoise | 6034       | 0.28 x 0.79       | 0.28 x 0.79           | 11 / 2               | 20.00         | GP4        | 095           | 340       |
| <b>Label for Siemens SIRIUS series, self-adhesive</b> |           |                  |            |                   |                       |                      |               |            |               |           |
| SKSK 20x7 Sirius                                      | 86401657  | White            | 9016       | 0.28 x 0.79       | 0.28 x 0.79           | 11 / 2               | 20.00         | GP4        | 95A           | 340       |
| SKSK 20x7 Sirius                                      | 86401653  | Pastel turquoise | 6034       | 0.28 x 0.79       | 0.28 x 0.79           | 11 / 2               | 20.00         | GP4        | 95B           | 340       |

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

Type SKS ET 200



PRODUCT INFORMATION

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

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

SPECIFICATIONS



-40.00 – 266.00 °F



Polycarbonate (PC)



V0



Switch gear labeling











| Type             | Order No. | Color | RAL equiv. | Label size *<br>inch | Printable area *<br>inch | No. characters/<br>lines | No. per frame | Base plate | Software type | Pack qty. |
|------------------|-----------|-------|------------|----------------------|--------------------------|--------------------------|---------------|------------|---------------|-----------|
| SKS 15x10 ET 200 | 86401670  | White | 9016       | 0.39 x 0.59          | 0.39 x 0.59              | 8 / 2                    | 20.00         | GP4        | 437           | 680       |

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

Type WGO



PRODUCT INFORMATION

**WGO** - for devices made by **Wago**, **Beckhoff** and **Euchner**.  
High-quality, halogen-free label plates to snap into devices.

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

SPECIFICATIONS



-40.00 – 266.00 °F



Polycarbonate (PC)



V0



For labeling equipment and connecting labeling







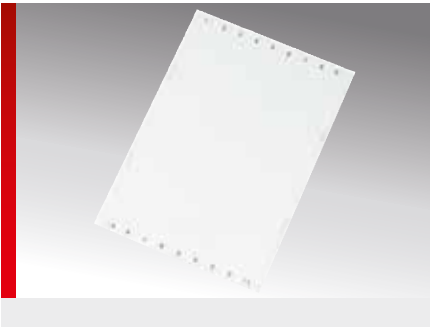




| Type     | Order No. | Color | RAL equiv. | Label size * inch | Printable area * inch | No. characters/lines | No. per frame | Base plate | Software type | Pack qty. |
|----------|-----------|-------|------------|-------------------|-----------------------|----------------------|---------------|------------|---------------|-----------|
| WGO 12/7 | 86401822  | White | 9016       | 0.28 x 0.47       | 0.28 x 0.47           | 6 / 2                | 36            | GP4        | 140           | 750       |

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

# ELO polycarbonate label, perforated



## PRODUCT INFORMATION

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

## SPECIFICATIONS


-40.00 – 284.00 °F


Polycarbonate


V0


Single-line and multi-line inscription.  
A4 sheets







| Type                                             | Order No. | Color  | Sheet labels size inch | Printable area inch | No. of columns | No. Per sheet | Software type | Pack qty. |
|--------------------------------------------------|-----------|--------|------------------------|---------------------|----------------|---------------|---------------|-----------|
| For labeling Siemens S7 assemblies <sup>1)</sup> |           |        |                        |                     |                |               |               |           |
| ELO 27.5x12.85 <sup>1)</sup>                     | 86561268  | Opaque | 1.08 x 0.51            | 1.08 x 0.51         | 14.00          | 126.00        | E24           | 1260.00   |
| ELO 28x17.5 <sup>1)</sup>                        | 86561267  | Opaque | 1.1 x 0.69             | 1.1 x 0.69          | 7.00           | 112.00        | AAR           | 1120      |
| ELO 50x12.85 <sup>1)</sup>                       | 86561264  | Opaque | 1.97 x 0.51            | 1.97 x 0.51         | 14.00          | 70.00         | E22           | 700       |
| ELO 50x25.5 <sup>1)</sup>                        | 86561266  | Opaque | 1.97 x 1.0             | 1.97 x 1.0          | 7.00           | 35            | E23           | 350       |
| ELO 103.5x17.45 <sup>1)</sup>                    | 86561262  | Opaque | 4.07 x 0.69            | 4.07 x 0.69         | 10             | 20.00         | E21           | 200       |
| ELO 103.5x22.85 <sup>1)</sup>                    | 86561260  | Opaque | 4.07 x 0.9             | 4.07 x 0.9          | 8.00           | 16.00         | E20           | 160       |

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

The KCS-ECO label strips are made of a PET foil. The core diameter is “3”. The label strips are used for the identification of Siemens series ET-200 and S7.

**Suitable for mp-TM series thermal transfer printers.**

-  -40.00 – 302.00 °F
-  Polyethylene terephthalate (PET)
-  Can be inscribed with thermal transfer printer, 3 in roll core diameter  
Primarily for inside use

[illegible]



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

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

| Type      | Order No. | Color         | RAL equiv. | Sheet labels size inch | Printable area inch | No. of columns | No. Per sheet | Software type | Pack qty. |
|-----------|-----------|---------------|------------|------------------------|---------------------|----------------|---------------|---------------|-----------|
| EDG 15x10 | 86561630  | Bright yellow | 1026       | 0.59 x 0.39            | 0.59 x 0.39         | 12.00          | 336           | 1P            | 3360      |
| EDG 18x9  | 86561620  | Yellow        | 1018       | 0.71 x 0.35            | 0.71 x 0.35         | 8.00           | 96            | 50            | 9600      |



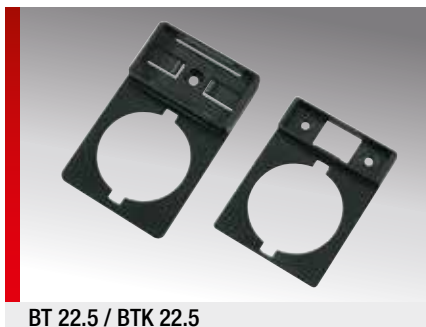


## Labeling of push-buttons and signal lamps

## BT label holder



BT Harmony ZB4



BT 22.5 / BTK 22.5



BT 15/xx / BTK 15/xx

### PRODUCT INFORMATION

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

Fastened with self-tapping screws.

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

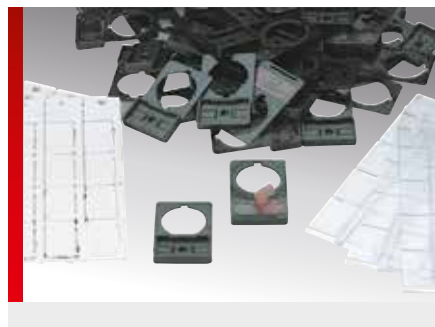
The transparent cover keeps the inserted label plates clean and free from mechanical load.

### SPECIFICATIONS

|                                                                                       |                                                               |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------|
|    | -40.00 – 176.00 °F                                            |
|    | BT and BTK Polyvinyl chloride (PVC)<br>TA: Polycarbonate (PC) |
|    | V0                                                            |
|    | Single-line and multi-line inscription                        |
|  |                                                               |
|  |                                                               |

| Type                                                                                       | Order No. | Color       | Recommended label plate | Pack qty. |
|--------------------------------------------------------------------------------------------|-----------|-------------|-------------------------|-----------|
| <b>Label holders</b>                                                                       |           |             |                         |           |
| BT 15/27                                                                                   | 86441010  | Black       | KS 15/27                | 250       |
| BT 15/49                                                                                   | 86441012  | Black       | KS 15/49                | 250       |
| BT 15/67                                                                                   | 86441014  | Black       | KS 15/67                | 250       |
| <b>Label holder with adhesive strip on the back</b>                                        |           |             |                         |           |
| BTK 15/27                                                                                  | 86441210  | Black       | KS 15/27                | 250       |
| BTK 15/49                                                                                  | 86441212  | Black       | KS 15/49                | 250       |
| BTK 15/67                                                                                  | 86441214  | Black       | KS 15/67                | 250       |
| <b>Label holder for Ø 0.89 in (22.5 mm) elements</b>                                       |           |             |                         |           |
| BT 22.5                                                                                    | 86442018  | Black       | KS 8/26.5               | 250       |
| <b>Label holder for elements with Ø 0.89 in (22.5 mm), with adhesive strip on the back</b> |           |             |                         |           |
| BTK 22.5                                                                                   | 86441016  | Black       | KS 15/27                | 250       |
| <b>Label holder for Möller elements with Ø 1.10 in (28 mm)</b>                             |           |             |                         |           |
| BT Harmony ZB4                                                                             | 86442016  | Black       | KS 8/26.5               | 250       |
| <b>Transparent cover for label holder</b>                                                  |           |             |                         |           |
| TA 8/26,5                                                                                  | 86441418  | Transparent |                         | 480       |
| TA 15/27                                                                                   | 86441410  | Transparent |                         | 480       |
| TA 15/49                                                                                   | 86441412  | Transparent |                         | 240       |
| TA 15/67                                                                                   | 86441414  | Transparent |                         | 120       |

### Label holder BT with KS sticker and TA cover



## PRODUCT INFORMATION

**Four different small assortments are available for low volumes:**

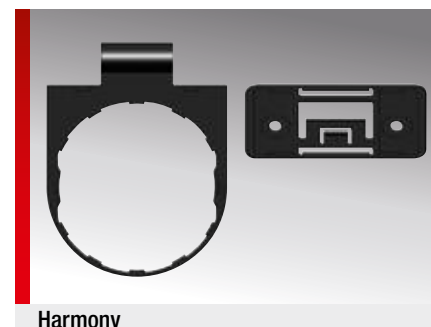
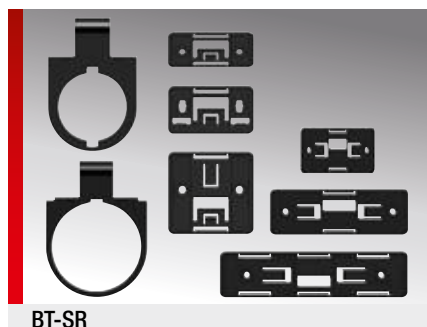
- **S-BTK 22.5 product range** consists of: each 48x BTK 22.5; KS 15/27; TA 15/27 and self-tapping screws.
- **S-BTK 15/27 product range** consisting of: each 48x BT 15/27; KS 15/27; TA 25/27 and self-tapping screws.
- **S-BTK 15/67 product range** consisting of: each 48x BT 15/67; KS 15/67; TA 15/67 and self-tapping screws.

## SPECIFICATIONS

|                                                                                     |                                                               |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------|
|  | -40.00 – 176.00 °F                                            |
|  | BT: Polyvinyl chloride (PVC)<br>KS and TA: Polycarbonate (PC) |
|  | V0                                                            |
|  | Single-line and multi-line inscription                        |

[illegible]

## BMA label holder



### PRODUCT INFORMATION

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

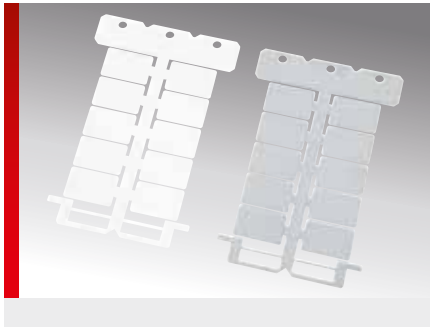
The neutral BMA type label holders can be equipped with various BT-SR type label frames, depending on the labeling requirement or request.

### SPECIFICATIONS

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

| Type                                      | Order No. | Color       | Recommended label plate | Pack qty. |
|-------------------------------------------|-----------|-------------|-------------------------|-----------|
| <b>Holder standard</b>                    |           |             |                         |           |
| BMA 22.5                                  | 86442020  | Black       |                         | 50        |
| BMA 30.0                                  | 86442024  | Black       |                         | 50        |
| <b>Standard label frame</b>               |           |             |                         |           |
| BT-SR 15x27                               | 86442034  | Black       | KS 15/27                | 10        |
| BT-SR 15x49                               | 86442036  | Black       | KS 15/49                | 10        |
| BT-SR 15x67                               | 86442038  | Black       | KS 15/67                | 10        |
| BT-SR 27x12.5                             | 86442028  | Black       | KSK 27x12.5             | 10        |
| BT-SR 27x18                               | 86442030  | Black       | KSK 27x18               | 10        |
| BT-SR 27x27                               | 86442032  | Black       | KSK 27x27               | 10        |
| <b>Holder Harmony</b>                     |           |             |                         |           |
| BMA 22.5 Harmony                          | 86442022  | Black       |                         | 50        |
| <b>Harmony label frame</b>                |           |             |                         |           |
| BT-SR 8x26.5 Harmony                      | 86442026  | Black       | KS 8/26.5               | 10        |
| BT-SR 27x18 Harmony                       | 86442042  | Black       | KSK 27x18               | 10        |
| <b>Transparent cover for label holder</b> |           |             |                         |           |
| TA 8/26,5                                 | 86441418  | Transparent |                         |           |
| TA 15/27                                  | 86441410  | Transparent |                         |           |
| TA 15/49                                  | 86441412  | Transparent |                         |           |
| TA 15/67                                  | 86441414  | Transparent |                         |           |
| TA 27/12,5                                | 86441420  | Transparent |                         | 216       |
| TA 27/18                                  | 86441422  | Transparent |                         | 180       |
| TA 27/27                                  | 86441424  | Transparent |                         | 108       |

## KSK (universal adhesive label)



### PRODUCT INFORMATION

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

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

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

### SPECIFICATIONS

-  -40.00 – 266.00 °F
-  Polycarbonate (PC)
-  V0
-  Single-line and multi-line inscription



| Type                                                       | Order No. | Color | Label size *<br>inch | Printable area *<br>inch | No. characters/<br>lines | No. per frame | Base plate | Software type | Pack qty. |
|------------------------------------------------------------|-----------|-------|----------------------|--------------------------|--------------------------|---------------|------------|---------------|-----------|
| <b>For Siemens 3SB push-button and signal lamp holders</b> |           |       |                      |                          |                          |               |            |               |           |
| KSK 22x22                                                  | 86361278  | White | 0.87 x 0.87          | 0.87 x 0.87              | 12 / 6                   | 8.00          | GP3        | 128           | 144       |
| KSK 22x22                                                  | 86361280  | Gray  | 0.87 x 0.87          | 0.87 x 0.87              | 12 / 6                   | 8.00          | GP3        | 129           | 144       |
| <b>For BT-SR 27x12.5</b>                                   |           |       |                      |                          |                          |               |            |               |           |
| KSK 27x12.5                                                | 86361266  | White | 0.49 x 1.06          | 0.49 x 1.06              | 15 / 3                   | 12.00         | GP3        | 115           | 216       |
| KSK 27x12.5                                                | 86361268  | Gray  | 0.49 x 1.06          | 0.49 x 1.06              | 15 / 3                   | 12.00         | GP3        | 116           | 216       |
| <b>For BT-SR 27x18 and BT-SR 27x18 Harmony</b>             |           |       |                      |                          |                          |               |            |               |           |
| KSK 27x18                                                  | 86361270  | White | 0.71 x 1.06          | 0.71 x 1.06              | 15 / 5                   | 10            | GP3        | 117           | 180       |
| KSK 27x18                                                  | 86361272  | Gray  | 0.71 x 1.06          | 0.71 x 1.06              | 15 / 5                   | 10            | GP3        | 118           | 180       |
| <b>For BT-SR 27x27</b>                                     |           |       |                      |                          |                          |               |            |               |           |
| KSK 27x27                                                  | 86361274  | White | 1.06 x 1.06          | 1.06 x 1.06              | 15 / 7                   | 6.00          | GP3        | 119           | 108       |
| KSK 27x27                                                  | 86361276  | Gray  | 1.06 x 1.06          | 1.06 x 1.06              | 15 / 7                   | 6.00          | GP3        | 127           | 108       |
| <b>Base carrier type plate</b>                             |           |       |                      |                          |                          |               |            |               |           |
| KSK 95x75                                                  | 86464016  | White | 2.95 x 3.74          | 2.95 x 3.74              | 52 / 22                  | 1             | GP1        | 300           | 20        |

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



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

## SPECIFICATIONS

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

[illegible]

## KCT-ECO button labeling



## PRODUCT INFORMATION

The KCT-ECO label plates are made of PE composite material on a transparent carrier film and a 3" core; they can be used as an alternative to the PC labels for key/button labelling.

KCT-ECO label plates for button labeling are available in various sizes in white or silver.

**Suitable for mp-TM series thermal transfer printers.**

## SPECIFICATIONS



-40.00 – 194.00 °F



### Polyethylene (PE)



Can be inscribed with thermal transfer printer, 3 in roll core diameter  
Primarily for inside use



High tensile strength and tear resistance  
In compliance with the requirements of  
REACH and RoHS

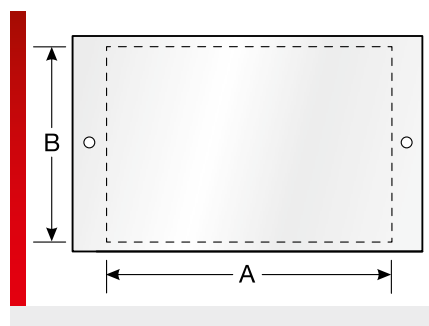
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| Type           | Order No.  | Color | label<br>size<br>in. (A x B) | Printable<br>area<br>in (C x B) | No.<br>characters/<br>lines | Software<br>type | Pack<br>qty. |
|----------------|------------|-------|------------------------------|---------------------------------|-----------------------------|------------------|--------------|
| KST 52x26 R3   | 8607140006 | White | 2.05 x 1.02                  | 1.46 x 1.02                     | 20 / 7                      | L36              | 10           |
| KST 74x37 R3   | 8607140005 | White | 2.91 x 1.46                  | 2.32 x 1.46                     | 32 / 10                     | L35              | 10           |
| KST 84x54 R3   | 8607140004 | White | 3.31 x 2.13                  | 2.72 x 2.13                     | 38 / 15                     | L34              | 10           |
| KST 100x60 R5  | 8607140003 | White | 3.94 x 2.36                  | 3.25 x 2.36                     | 45 / 17                     | L33              | 10           |
| KST 120x70 R5  | 8607140002 | White | 4.72 x 2.76                  | 4.04 x 2.76                     | 56 / 20                     | L32              | 10           |
| KST 139x85 R5  | 8607140001 | White | 5.47 x 3.35                  | 4.78 x 3.35                     | 67 / 25                     | L31              | 10           |
| KST 139x139 R5 | 8607140000 | White | 5.47 x 5.47                  | 4.78 x 5.47                     | 67 / 40                     | L30              | 10           |

## KST type plate-set



### PRODUCT INFORMATION

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

- The complete set consists of the KS base carrier and cover with TA zoom function. These parts are also available individually.
- Instead of the base carrier, you can also label the optional ELO insert and place it between the base carrier and cover.

### SPECIFICATIONS

|                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    | -40.00 – 266.00 °F                                                                    |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|    | (KS label and transparent cover TA)                                                   |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                       | Polycarbonate                                                                         |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                       | ELO label, perforated Polyester film                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|    | V0                                                                                    |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|   | Universal label holder                                                                |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|  | Printable KS base plates are halogen-free<br>per DIN/VDE 0472, Part 815               |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|  |  |  |  |  |  |
|  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |

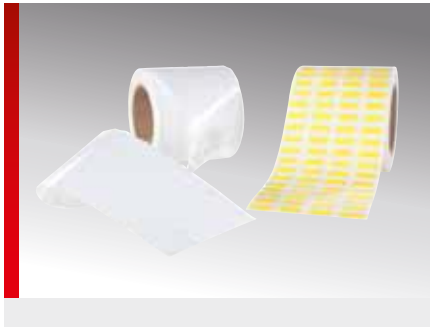
| Type                                                                                                                    | Order No. | Color               | label size<br>in. (A x B) | Sheet labels<br>size<br>inch | Printable<br>area<br>in (C x B) | No.<br>characters/<br>lines | No.<br>per<br>frame | No.<br>Per<br>sheet | Base<br>plate | Software<br>type | Pack<br>qty. |
|-------------------------------------------------------------------------------------------------------------------------|-----------|---------------------|---------------------------|------------------------------|---------------------------------|-----------------------------|---------------------|---------------------|---------------|------------------|--------------|
| <b>Complete set, consisting of printable base carrier and transparent cover with magnifying function</b>                |           |                     |                           |                              |                                 |                             |                     |                     |               |                  |              |
| TS 75x50                                                                                                                | 86464020  | White / Transparent |                           |                              |                                 |                             |                     |                     |               |                  | 10           |
| TS 95x75                                                                                                                | 86464010  | White / Transparent |                           |                              |                                 |                             |                     |                     |               |                  | 10           |
| <b>Printable base carrier</b>                                                                                           |           |                     |                           |                              |                                 |                             |                     |                     |               |                  |              |
| KS 75x50                                                                                                                | 86464022  | White               | 2.95 x 1.97               |                              | 2.95 x 1.97                     | 41 / 14                     | 1                   |                     | GP1           | 301              | 20           |
| KS 95x75                                                                                                                | 86464012  | White               | 3.74 x 2.95               |                              | 3.74 x 2.95                     | 52 / 22                     | 1                   |                     | GP1           | 300              | 20           |
| <b>Transparent cover with magnifying function</b>                                                                       |           |                     |                           |                              |                                 |                             |                     |                     |               |                  |              |
| TA 75x50                                                                                                                | 86464024  | Transparent         |                           |                              |                                 |                             |                     |                     |               |                  | 10           |
| TA 95x75                                                                                                                | 86464014  | Transparent         |                           |                              |                                 |                             |                     |                     |               |                  | 10           |
| <b>Perforated ELO insert label, suitable for TS type plate set</b>                                                      |           |                     |                           |                              |                                 |                             |                     |                     |               |                  |              |
| ELO 95x55                                                                                                               | 86561263  | Opaque              |                           | 3.74 x 2.17                  | 3.74 x 2.17                     | 52 / 16                     |                     | 10                  |               | AAT              | 100          |
| ELO 110x75                                                                                                              | 86561261  | Opaque              |                           | 4.33 x 2.95                  | 4.33 x 2.95                     | 61 / 22                     |                     | 4.00                |               | AAS              | 40           |
| Optional KSK 95x75 base carrier, self-adhesive (pack of 20 pcs.), Order No. 86464016 (not available as TS complete set) |           |                     |                           |                              |                                 |                             |                     |                     |               |                  |              |





## Thermal transfer labels

## ECP-Premium polyester label



### PRODUCT INFORMATION

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

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

**Suitable for mp-TM series thermal transfer printers.**

### SPECIFICATIONS

-  -40.00 – 302.00 °F
-  Polyester film
-  Label rail with thermal transfer printer  
Roll core diameter 3 inch
-  Self-extinguishing after 15 seconds.  
Non-drip



| Type                              | Order No. | Color  | Label size<br>length x width<br>inch | Roll<br>width<br>inch | Recommended<br>printer ribbon | Software<br>type | Pack<br>qty. |
|-----------------------------------|-----------|--------|--------------------------------------|-----------------------|-------------------------------|------------------|--------------|
| <b>ECP-Premium labels, white</b>  |           |        |                                      |                       |                               |                  |              |
| ECP-Premium 11x6                  | 86511100  | White  | 0.43 x 0.24                          | 3.94                  | FB-TM 110 mm x 300 m          | Q00              | 10000        |
| ECP-Premium 11x9                  | 86511101  | White  | 0.43 x 0.35                          | 3.94                  | FB-TM 110 mm x 300 m          | Q01              | 10000        |
| ECP-Premium 15x6                  | 86511102  | White  | 0.59 x 0.24                          | 4.25                  | FB-TM 110 mm x 300 m          | Q02              | 10000        |
| ECP-Premium 18x6                  | 86511103  | White  | 0.71 x 0.24                          | 4.25                  | FB-TM 110 mm x 300 m          | Q03              | 10000        |
| ECP-Premium 18x9                  | 86511104  | White  | 0.71 x 0.35                          | 4.25                  | FB-TM 110 mm x 300 m          | Q04              | 10000        |
| ECP-Premium 20x8                  | 86511114  | White  | 0.79 x 0.31                          | 4.25                  | FB-TM 110 mm x 300 m          | Q12              | 10000        |
| ECP-Premium 22x22                 | 86511108  | White  | 0.87 x 0.87                          | 4.25                  | FB-TM 110 mm x 300 m          | Q08              | 2500         |
| ECP-Premium 27x12,5               | 86511105  | White  | 1.06 x 0.49                          | 4.25                  | FB-TM 110 mm x 300 m          | Q05              | 5000         |
| ECP-Premium 27x17,5               | 86511106  | White  | 1.06 x 0.69                          | 4.25                  | FB-TM 110 mm x 300 m          | Q06              | 5000         |
| ECP-Premium 27x27                 | 86511107  | White  | 1.06 x 1.06                          | 4.25                  | FB-TM 110 mm x 300 m          | Q07              | 2500         |
| ECP-Premium 60x40                 | 86511111  | White  | 2.36 x 1.57                          | 2.52                  | FB-TM 110 mm x 300 m          | Q09              | 1500         |
| ECP-Premium 90x60                 | 86511112  | White  | 3.54 x 2.36                          | 3.70                  | FB-TM 110 mm x 300 m          | Q10              | 1500         |
| ECP-Premium 100x150               | 86511113  | White  | 3.94 x 5.91                          | 4.09                  | FB-TM 110 mm x 300 m          | Q11              | 500          |
| <b>ECP-Premium labels, silver</b> |           |        |                                      |                       |                               |                  |              |
| ECP-Premium 11x6                  | 86511200  | Silver | 0.43 x 0.24                          | 3.94                  | FB-TM 110 mm x 300 m          | Q26              | 10000        |
| ECP-Premium 11x9                  | 86511201  | Silver | 0.43 x 0.35                          | 3.94                  | FB-TM 110 mm x 300 m          | Q27              | 10000        |
| ECP-Premium 15x6                  | 86511202  | Silver | 0.59 x 0.24                          | 4.25                  | FB-TM 110 mm x 300 m          | Q28              | 10000        |
| ECP-Premium 15x250                | 86511220  | Silver | 0.59 x 9.84                          | 3.74                  | FB-TM 110 mm x 300 m          | QN5              | 1500         |
| ECP-Premium 17x40                 | 86511221  | Silver | 1.57 x 0.67                          | 2.48                  | FB-TM 110 mm x 300 m          | QN6              | 5000         |
| ECP-Premium 18x6                  | 86511203  | Silver | 0.71 x 0.24                          | 4.25                  | FB-TM 110 mm x 300 m          | Q29              | 10000        |
| ECP-Premium 18x9                  | 86511204  | Silver | 0.71 x 0.35                          | 4.25                  | FB-TM 110 mm x 300 m          | Q30              | 10000        |
| ECP-Premium 18x52                 | 86511224  | Silver | 0.71 x 2.05                          | 3.23                  | FB-TM 110 mm x 300 m          | Q01              | 5000         |
| ECP-Premium 19x250                | 86511219  | Silver | 0.75 x 9.84                          | 3.62                  | FB-TM 110 mm x 300 m          | QN4              | 1200         |

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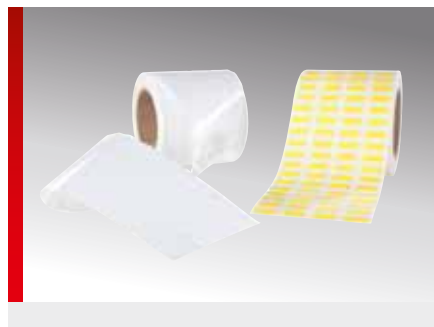


**Suitable for mp-TM series thermal transfer printers.**

|                                                                                       |                                          |
|---------------------------------------------------------------------------------------|------------------------------------------|
|    | -40.00 – 302.00 °F                       |
|    | Polyester film                           |
|    | Label rail with thermal transfer printer |
|    | Roll core diameter 3 inch                |
|   | Self-extinguishing after 15 seconds.     |
|  | Non-drip                                 |

[illegible]

## ECP-ECO polyester label



### PRODUCT INFORMATION

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

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

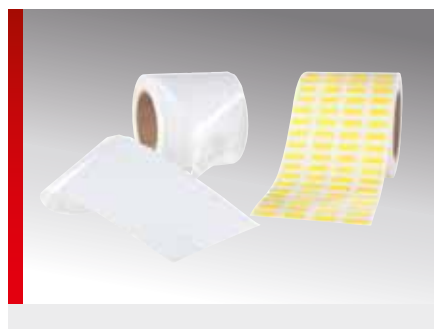
**Suitable for mp-TM series thermal transfer printers.**

### SPECIFICATIONS

|                                                                                       |                                                                       |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|    | -4.00 – 248 °F                                                        |
|    | Polyester film                                                        |
|    | Label rail with thermal transfer printer<br>Roll core diameter 3 inch |
|   | Primarily for inside use                                              |
|  |                                                                       |
|  |                                                                       |

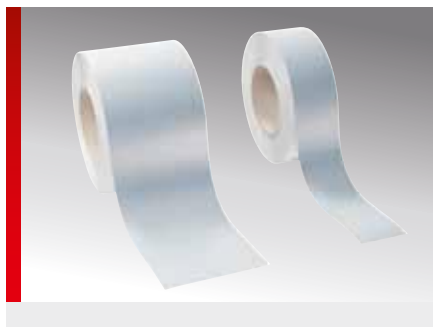
| Type                          | Order No. | Color  | Label size<br>length x width<br>inch | Roll<br>width<br>inch | Recommended<br>printer ribbon | Software<br>type | Pack<br>qty. |
|-------------------------------|-----------|--------|--------------------------------------|-----------------------|-------------------------------|------------------|--------------|
| <b>ECP-ECO labels, white</b>  |           |        |                                      |                       |                               |                  |              |
| ECP-ECO 11x6                  | 86511600  | White  | 0.43 x 0.24                          | 3.66                  | FB-TM 110 mm x 300 m          | Q50              | 10000        |
| ECP-ECO 11x9                  | 86511601  | White  | 0.43 x 0.35                          | 3.66                  | FB-TM 110 mm x 300 m          | Q51              | 10000        |
| ECP-ECO 15x6                  | 86511602  | White  | 0.59 x 0.24                          | 3.43                  | FB-TM 110 mm x 300 m          | Q52              | 10000        |
| ECP-ECO 18x6                  | 86511603  | White  | 0.71 x 0.24                          | 4.02                  | FB-TM 110 mm x 300 m          | Q53              | 10000        |
| ECP-ECO 18x9                  | 86511604  | White  | 0.71 x 0.35                          | 4.02                  | FB-TM 110 mm x 300 m          | Q54              | 10000        |
| ECP-ECO 22x22                 | 86511608  | White  | 0.87 x 0.87                          | 3.86                  | FB-TM 110 mm x 300 m          | Q58              | 10000        |
| ECP-ECO 27x12.5               | 86511605  | White  | 1.06 x 0.49                          | 3.50                  | FB-TM 110 mm x 300 m          | Q55              | 10000        |
| ECP-ECO 27x17.5               | 86511606  | White  | 1.06 x 0.69                          | 3.50                  | FB-TM 110 mm x 300 m          | Q56              | 10000        |
| ECP-ECO 27x27                 | 86511607  | White  | 1.06 x 1.06                          | 3.50                  | FB-TM 110 mm x 300 m          | Q57              | 10000        |
| ECP-ECO 60x40                 | 86511611  | White  | 2.36 x 1.57                          | 2.52                  | FB-TM 110 mm x 300 m          | Q59              | 2000         |
| ECP-ECO 90x60                 | 86511612  | White  | 3.54 x 2.36                          | 3.70                  | FB-TM 110 mm x 300 m          | Q60              | 1500         |
| ECP-ECO 100x150               | 86511613  | White  | 3.94 x 5.91                          | 4.09                  | FB-TM 110 mm x 300 m          | Q61              | 600          |
| <b>ECP-ECO labels, silver</b> |           |        |                                      |                       |                               |                  |              |
| ECP-ECO 11x6                  | 86511700  | Silver | 0.43 x 0.24                          | 3.66                  | FB-TM 110 mm x 300 m          | Q74              | 10000        |
| ECP-ECO 11x9                  | 86511701  | Silver | 0.43 x 0.35                          | 3.66                  | FB-TM 110 mm x 300 m          | Q75              | 10000        |
| ECP-ECO 15x6                  | 86511702  | Silver | 0.59 x 0.24                          | 3.43                  | FB-TM 110 mm x 300 m          | Q76              | 10000        |
| ECP-ECO 18x6                  | 86511703  | Silver | 0.71 x 0.24                          | 4.02                  | FB-TM 110 mm x 300 m          | Q77              | 10000        |
| ECP-ECO 18x9                  | 86511704  | Silver | 0.71 x 0.35                          | 4.02                  | FB-TM 110 mm x 300 m          | Q78              | 10000        |
| ECP-ECO 22x22                 | 86511708  | Silver | 0.87 x 0.87                          | 3.86                  | FB-TM 110 mm x 300 m          | Q82              | 10000        |
| ECP-ECO 27x12.5               | 86511705  | Silver | 1.06 x 0.49                          | 3.50                  | FB-TM 110 mm x 300 m          | Q79              | 10000        |
| ECP-ECO 27x17.5               | 86511706  | Silver | 1.06 x 0.69                          | 3.50                  | FB-TM 110 mm x 300 m          | Q80              | 10000        |
| ECP-ECO 27x27                 | 86511707  | Silver | 1.06 x 1.06                          | 3.50                  | FB-TM 110 mm x 300 m          | Q81              | 10000        |
| ECP-ECO 60x40                 | 86511711  | Silver | 2.36 x 1.57                          | 2.52                  | FB-TM 110 mm x 300 m          | Q83              | 2000         |

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



| Type                          | Order No. | Color  | Label size<br>length x width<br>inch | Roll<br>width<br>inch | Recommended<br>printer ribbon | Software<br>type | Pack<br>qty. |
|-------------------------------|-----------|--------|--------------------------------------|-----------------------|-------------------------------|------------------|--------------|
| ECP-ECO 90x60                 | 86511712  | Silver | 3.54 x 2.36                          | 3.70                  | FB-TM 110 mm x 300 m          | Q84              | 1500         |
| ECP-ECO 100x150               | 86511713  | Silver | 3.94 x 5.91                          | 4.09                  | FB-TM 110 mm x 300 m          | Q85              | 600          |
| <b>ECP-ECO labels, yellow</b> |           |        |                                      |                       |                               |                  |              |
| ECP-ECO 11x6                  | 86511500  | Yellow | 0.43 x 0.24                          | 3.66                  | FB-TM 110 mm x 300 m          | Q62              | 10000        |
| ECP-ECO 11x9                  | 86511501  | Yellow | 0.43 x 0.35                          | 3.66                  | FB-TM 110 mm x 300 m          | Q63              | 10000        |
| ECP-ECO 15x6                  | 86511502  | Yellow | 0.59 x 0.24                          | 3.43                  | FB-TM 110 mm x 300 m          | Q64              | 10000        |
| ECP-ECO 18x6                  | 86511503  | Yellow | 0.71 x 0.24                          | 4.02                  | FB-TM 110 mm x 300 m          | Q65              | 10000        |
| ECP-ECO 18x9                  | 86511504  | Yellow | 0.71 x 0.35                          | 4.02                  | FB-TM 110 mm x 300 m          | Q66              | 10000        |
| ECP-ECO 22x22                 | 86511508  | Yellow | 0.87 x 0.87                          | 3.86                  | FB-TM 110 mm x 300 m          | Q70              | 10000        |
| ECP-ECO 27x12.5               | 86511505  | Yellow | 1.06 x 0.49                          | 3.50                  | FB-TM 110 mm x 300 m          | Q67              | 10000        |
| ECP-ECO 27x17.5               | 86511506  | Yellow | 1.06 x 0.69                          | 3.50                  | FB-TM 110 mm x 300 m          | Q68              | 10000        |
| ECP-ECO 27x27                 | 86511507  | Yellow | 1.06 x 1.06                          | 3.50                  | FB-TM 110 mm x 300 m          | Q69              | 10000        |
| ECP-ECO 60x40                 | 86511511  | Yellow | 2.36 x 1.57                          | 2.52                  | FB-TM 110 mm x 300 m          | Q71              | 2000         |
| ECP-ECO 90x60                 | 86511512  | Yellow | 3.54 x 2.36                          | 3.70                  | FB-TM 110 mm x 300 m          | Q72              | 1500         |
| ECP-ECO 100x150               | 86511513  | Yellow | 3.94 x 5.91                          | 4.09                  | FB-TM 110 mm x 300 m          | Q73              | 600          |

## ECP-ECO continuous polyester label



## PRODUCT INFORMATION

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

- Continuous material allows the production of labels in any length
- Good adhesive properties for many surfaces
- Cost-effective solution

**Suitable for mp-TM series thermal transfer printers.**

## SPECIFICATIONS

|                                                                                       |                                                                       |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|    | -4.00 – 248 °F                                                        |
|    | Polyester film                                                        |
|    | Label rail with thermal transfer printer<br>Roll core diameter 3 inch |
|    | Primarily for inside use                                              |
|  |                                                                       |
|  |                                                                       |

[illegible]

## A roll of white, rectangular labels with a perforated edge, unrolled to show the individual labels. The labels are arranged in a continuous strip, and the roll is shown against a light gray background.

The TEA (Thermotransfer-Etikett-Automotive) label series was developed especially for the automotive industry to meet the need for an efficient, customer optimised solution. It complies with the current requirements. Polyester 50 µm film comes with a slight gloss and a surface coating to ensure outstanding colour fixing when inscribing with thermal transfer print systems and synthetic resin-based thermal transfer ribbons. The smooth surface of the material enables full-coverage colour transfer, ensuring precise lettering. The polyester labels are suitable for adhesion to metal, gloss paints and high surface energy plastics. The permanent ac-

TEA - Polyester labels are suitable for

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

|                                                                                     |                                                                       |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|  | -40.00 – 302.00 °F                                                    |
|  | Polyester film                                                        |
|  | Label rail with thermal transfer printer<br>Roll core diameter 3 inch |
|  |                                                                       |
|  |                                                                       |

1192 Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

## TEP - polyester label



### PRODUCT INFORMATION

Polyester 50 µm film comes with a slight gloss and a surface coating to ensure outstanding color fixing when inscribing with thermal transfer print systems and synthetic resin-based thermal transfer ribbons. The smooth surface of the material enables full-cover color transfer, ensuring precise lettering. The polyester labels are suitable for adhesion to metal, gloss paints and high surface energy plastics. The permanent acrylate adhesive exhibits high initial adhesion and at least 1006 N/m FTM 1 on steel after 72 hours. The silver polyester labels are UL-

certified for thermal transfer printing using our resin ribbons.

TEP - Polyester labels are suitable for

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

**Suitable for use with pavonis thermal transfer printers and the mp-TM series (with external unwinder).**

### SPECIFICATIONS

|                                                                                      |                                                                                      |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|   | -40.00 – 302.00 °F                                                                   |
|   | Polyester film                                                                       |
|   | Label rail with thermal transfer printer<br>Roll core diameter 1 inch                |
|  |  |

| Type                      | Order No. | Color  | Label size<br>length x width<br>inch | Sheet labels<br>diameter<br>inch | Roll<br>width<br>inch | Recommended<br>printer ribbon | Software<br>type | Pack<br>qty. |
|---------------------------|-----------|--------|--------------------------------------|----------------------------------|-----------------------|-------------------------------|------------------|--------------|
| <b>Rectangular design</b> |           |        |                                      |                                  |                       |                               |                  |              |
| TEP 6.35x6.35             | 86496100  | White  | 0.25 x 0.25                          |                                  | 4.09                  | FH 90mm x 300m                | N00              | 10000        |
| TEP 12.7x11               | 86496101  | White  | 0.5 x 0.43                           |                                  | 3.35                  | FH 90mm x 300m                | N01              | 10000        |
| TEP 12.7x11               | 86496301  | Yellow | 0.5 x 0.43                           |                                  | 3.35                  | FH 90mm x 300m                | O01              | 10000        |
| TEP 12.7x11               | 86496501  | Silver | 0.5 x 0.43                           |                                  | 3.35                  | FH 90mm x 300m                | P01              | 10000        |
| TEP 15x6.35               | 86496102  | White  | 0.59 x 0.25                          |                                  | 4.13                  | FH 110mm x 300m               | N02              | 10000        |
| TEP 15x6.35               | 86496302  | Yellow | 0.59 x 0.25                          |                                  | 4.13                  | FH 110mm x 300m               | O02              | 10000        |
| TEP 15x6.35               | 86496502  | Silver | 0.59 x 0.25                          |                                  | 4.13                  | FH 110mm x 300m               | P02              | 10000        |
| TEP 16x9                  | 86496103  | White  | 0.63 x 0.35                          |                                  | 3.86                  | FH 110mm x 300m               | N03              | 10000        |
| TEP 16x9                  | 86496303  | Yellow | 0.63 x 0.35                          |                                  | 3.86                  | FH 110mm x 300m               | O03              | 10000        |
| TEP 16x9                  | 86496503  | Silver | 0.63 x 0.35                          |                                  | 3.86                  | FH 110mm x 300m               | P03              | 10000        |
| TEP 16.5x5.1              | 86496104  | White  | 0.65 x 0.2                           |                                  | 3.15                  | FH 80mm x 300m                | N04              | 10000        |
| TEP 16.5x5.1              | 86496304  | Yellow | 0.65 x 0.2                           |                                  | 3.15                  | FH 80mm x 300m                | O04              | 10000        |
| TEP 16.5x5.1              | 86496504  | Silver | 0.65 x 0.2                           |                                  | 3.15                  | FH 80mm x 300m                | P04              | 10000        |
| TEP 17x7.4                | 86496105  | White  | 0.67 x 0.29                          |                                  | 3.78                  | FH 110mm x 300m               | N05              | 10000        |
| TEP 17x7.4                | 86496305  | Yellow | 0.67 x 0.29                          |                                  | 3.78                  | FH 110mm x 300m               | O05              | 10000        |
| TEP 18x8                  | 86496106  | White  | 0.71 x 0.31                          |                                  | 4.13                  | FH 110mm x 300m               | N06              | 10000        |
| TEP 18x8                  | 86496306  | Yellow | 0.71 x 0.31                          |                                  | 4.13                  | FH 110mm x 300m               | O06              | 10000        |
| TEP 18x8                  | 86496506  | Silver | 0.71 x 0.31                          |                                  | 4.13                  | FH 110mm x 300m               | P06              | 10000        |
| TEP 18x12.7               | 86496107  | White  | 0.71 x 0.5                           |                                  | 3.66                  | FH 110mm x 300m               | N07              | 10000        |
| TEP 18x12.7               | 86496507  | Silver | 0.71 x 0.5                           |                                  | 3.66                  | FH 110mm x 300m               | P07              | 10000        |
| TEP 19x6.35               | 86496108  | White  | 0.75 x 0.25                          |                                  | 3.35                  | FH 90mm x 300m                | N08              | 10000        |
| TEP 19x6.35               | 86496308  | Yellow | 0.75 x 0.25                          |                                  | 3.35                  | FH 90mm x 300m                | O08              | 10000        |

## TEP - polyester label (Continued...)



| Type          | Order No. | Color  | Label size<br>length x width<br>inch | Sheet labels<br>diameter<br>inch | Roll<br>width<br>inch | Recommended<br>printer ribbon | Software<br>type | Pack<br>qty. |
|---------------|-----------|--------|--------------------------------------|----------------------------------|-----------------------|-------------------------------|------------------|--------------|
| TEP 19x6.35   | 86496508  | Silver | 0.75 x 0.25                          |                                  | 3.35                  | FH 90mm x 300m                | P08              | 10000        |
| TEP 20x8      | 86496109  | White  | 0.79 x 0.31                          |                                  | 4.13                  | FH 110mm x 300m               | N09              | 10000        |
| TEP 20x8      | 86496309  | Yellow | 0.79 x 0.31                          |                                  | 4.13                  | FH 110mm x 300m               | O09              | 10000        |
| TEP 20x8      | 86496509  | Silver | 0.79 x 0.31                          |                                  | 4.13                  | FH 110mm x 300m               | P09              | 10000        |
| TEP 20x9      | 86496110  | White  | 0.79 x 0.35                          |                                  | 3.98                  | FH 110mm x 300m               | N10              | 10000        |
| TEP 20x9      | 86496310  | Yellow | 0.79 x 0.35                          |                                  | 3.98                  | FH 110mm x 300m               | O10              | 10000        |
| TEP 20x9      | 86496510  | Silver | 0.79 x 0.35                          |                                  | 3.98                  | FH 110mm x 300m               | P10              | 10000        |
| TEP 22x22     | 86496545  | Silver | 0.87 x 0.87                          |                                  | 3.54                  | FH 90mm x 300m                | P45              | 10000        |
| TEP 23x6      | 86496111  | White  | 0.91 x 0.24                          |                                  | 4.33                  | FH 110mm x 300m               | N11              | 10000        |
| TEP 25x8      | 86496112  | White  | 0.98 x 0.31                          |                                  | 3.35                  | FH 90mm x 300m                | N12              | 10000        |
| TEP 25x8      | 86496312  | Yellow | 0.98 x 0.31                          |                                  | 3.35                  | FH 90mm x 300m                | O12              | 10000        |
| TEP 25x8      | 86496512  | Silver | 0.98 x 0.31                          |                                  | 3.35                  | FH 90mm x 300m                | P12              | 10000        |
| TEP 25.4x12.7 | 86496113  | White  | 1.0 x 0.5                            |                                  | 3.35                  | FH 90mm x 300m                | N13              | 9000         |
| TEP 25.4x12.7 | 86496313  | Yellow | 1.0 x 0.5                            |                                  | 3.35                  | FH 90mm x 300m                | O13              | 9000         |
| TEP 25.4x12.7 | 86496513  | Silver | 1.0 x 0.5                            |                                  | 3.35                  | FH 90mm x 300m                | P13              | 9000         |
| TEP 27x12.5   | 86496548  | Silver | 1.06 x 0.49                          |                                  | 3.54                  | FH 90mm x 300m                | P48              | 10000        |
| TEP 27x18     | 86496547  | Silver | 1.06 x 0.71                          |                                  | 3.54                  | FH 90mm x 300m                | P47              | 10000        |
| TEP 27x27     | 86496546  | Silver | 1.06 x 1.06                          |                                  | 3.54                  | FH 90mm x 300m                | P46              | 10000        |
| TEP 31.8x9.4  | 86496114  | White  | 1.25 x 0.37                          |                                  | 2.76                  | FH 70mm x 300m                | N14              | 10000        |
| TEP 31.8x9.4  | 86496314  | Yellow | 1.25 x 0.37                          |                                  | 2.76                  | FH 70mm x 300m                | O14              | 10000        |
| TEP 31.8x9.4  | 86496514  | Silver | 1.25 x 0.37                          |                                  | 2.76                  | FH 70mm x 300m                | P14              | 10000        |
| TEP 36x12.7   | 86496115  | White  | 1.42 x 0.5                           |                                  | 3.15                  | FH 80mm x 300m                | N15              | 10000        |
| TEP 36x12.7   | 86496315  | Yellow | 1.42 x 0.5                           |                                  | 3.15                  | FH 80mm x 300m                | O15              | 10000        |
| TEP 36x12.7   | 86496515  | Silver | 1.42 x 0.5                           |                                  | 3.15                  | FH 80mm x 300m                | P15              | 10000        |
| TEP 38.1x6.35 | 86496116  | White  | 1.5 x 0.25                           |                                  | 3.35                  | FH 90mm x 300m                | N16              | 10000        |
| TEP 38.1x6.35 | 86496516  | Silver | 1.5 x 0.25                           |                                  | 3.35                  | FH 90mm x 300m                | P16              | 10000        |
| TEP 38x19     | 86496117  | White  | 1.5 x 0.75                           |                                  | 3.35                  | FH 90mm x 300m                | N17              | 4000         |
| TEP 38x19     | 86496317  | Yellow | 1.5 x 0.75                           |                                  | 3.35                  | FH 90mm x 300m                | O17              | 4000         |
| TEP 38x19     | 86496517  | Silver | 1.5 x 0.75                           |                                  | 3.35                  | FH 90mm x 300m                | P17              | 4000         |
| TEP 38x23     | 86496118  | White  | 1.5 x 0.91                           |                                  | 3.35                  | FH 90mm x 300m                | N18              | 3000         |
| TEP 38x23     | 86496318  | Yellow | 1.5 x 0.91                           |                                  | 3.35                  | FH 90mm x 300m                | O18              | 3000         |
| TEP 38x23     | 86496518  | Silver | 1.5 x 0.91                           |                                  | 3.35                  | FH 90mm x 300m                | P18              | 3000         |
| TEP/S 45x40   | 86492300  | Yellow | 1.77 x 1.57                          |                                  | 3.70                  | FH 110mm x 300m               | O55              | 1500         |
| TEP 48x8      | 86496119  | White  | 1.89 x 0.31                          |                                  | 2.20                  | FH 60mm x 300m                | N19              | 10000        |
| TEP 48x8      | 86496519  | Silver | 1.89 x 0.31                          |                                  | 2.20                  | FH 60mm x 300m                | P19              | 10000        |
| TEP 50.8x25.4 | 86496120  | White  | 2.0 x 1.0                            |                                  | 2.24                  | FH 60mm x 300m                | N20              | 3000         |
| TEP 50.8x25.4 | 86496320  | Yellow | 2.0 x 1.0                            |                                  | 2.24                  | FH 60mm x 300m                | O20              | 3000         |

## TEP - polyester label (Continued...)

| Type                | Order No. | Color         | Label size<br>length x width<br>inch | Sheet labels<br>diameter<br>inch | Roll<br>width<br>inch | Recommended<br>printer ribbon | Software<br>type | Pack<br>qty. |
|---------------------|-----------|---------------|--------------------------------------|----------------------------------|-----------------------|-------------------------------|------------------|--------------|
| TEP 50.8x25.4       | 86496520  | Silver        | 2.0 x 1.0                            |                                  | 2.24                  | FH 60mm x 300m                | P20              | 3000         |
| TEP 55x15           | 86496121  | White         | 2.17 x 0.59                          |                                  | 2.36                  | FH 60mm x 300m                | N21              | 5000         |
| TEP 55x15           | 86496321  | Yellow        | 2.17 x 0.59                          |                                  | 2.36                  | FH 60mm x 300m                | O21              | 5000         |
| TEP 55x15           | 86496521  | Silver        | 2.17 x 0.59                          |                                  | 2.36                  | FH 60mm x 300m                | P21              | 5000         |
| TEP 56x9.5          | 86496122  | White         | 2.2 x 0.37                           |                                  | 2.36                  | FH 60mm x 300m                | N22              | 3000         |
| TEP 60x34           | 86496123  | White         | 2.36 x 1.34                          |                                  | 2.52                  | FH 70mm x 300m                | N23              | 2500         |
| TEP 60x34           | 86496323  | Yellow        | 2.36 x 1.34                          |                                  | 2.52                  | FH 70mm x 300m                | O23              | 2500         |
| TEP 60x34           | 86496523  | Silver        | 2.36 x 1.34                          |                                  | 2.52                  | FH 70mm x 300m                | P23              | 2500         |
| TEP 60x40           | 86496124  | White         | 2.36 x 1.57                          |                                  | 2.52                  | FH 70mm x 300m                | N24              | 2500         |
| TEP 60x40           | 86496324  | Yellow        | 2.36 x 1.57                          |                                  | 2.52                  | FH 70mm x 300m                | O24              | 2500         |
| TEP 60x40           | 86496524  | Silver        | 2.36 x 1.57                          |                                  | 2.52                  | FH 70mm x 300m                | P24              | 2500         |
| TEP 70x25.4         | 86496125  | White         | 2.76 x 1.0                           |                                  | 2.99                  | FH 80mm x 300m                | N25              | 3000         |
| TEP 70x25.4         | 86496325  | Yellow        | 2.76 x 1.0                           |                                  | 2.99                  | FH 80mm x 300m                | O25              | 3000         |
| TEP 70x25.4         | 86496525  | Silver        | 2.76 x 1.0                           |                                  | 2.99                  | FH 80mm x 300m                | P25              | 3000         |
| TEP 70x32           | 86496126  | White         | 2.76 x 1.26                          |                                  | 2.99                  | FH 80mm x 300m                | N26              | 3000         |
| TEP 70x32           | 86496326  | Yellow        | 2.76 x 1.26                          |                                  | 2.99                  | FH 80mm x 300m                | O26              | 3000         |
| TEP 70x32           | 86496526  | Silver        | 2.76 x 1.26                          |                                  | 2.99                  | FH 80mm x 300m                | P26              | 3000         |
| TEP 74x37           | 86496127  | White         | 2.91 x 1.46                          |                                  | 3.15                  | FH 80mm x 300m                | N27              | 2000         |
| TEP 74x37           | 86496327  | Yellow        | 2.91 x 1.46                          |                                  | 3.15                  | FH 80mm x 300m                | O27              | 2000         |
| TEP 74x37           | 86496527  | Silver        | 2.91 x 1.46                          |                                  | 3.15                  | FH 80mm x 300m                | P27              | 2000         |
| TEP 76.2x25.4       | 86496128  | White         | 3.0 x 1.0                            |                                  | 3.15                  | FH 80mm x 300m                | N28              | 3000         |
| TEP 76.2x25.4       | 86496328  | Yellow        | 3.0 x 1.0                            |                                  | 3.15                  | FH 80mm x 300m                | O28              | 3000         |
| TEP 76.2x25.4       | 86496528  | Silver        | 3.0 x 1.0                            |                                  | 3.15                  | FH 80mm x 300m                | P28              | 3000         |
| TEP 76.2x50.8       | 86496129  | White         | 3.0 x 2.0                            |                                  | 3.15                  | FH 80mm x 300m                | N29              | 2500         |
| TEP 76.2x50.8       | 86496329  | Yellow        | 3.0 x 2.0                            |                                  | 3.15                  | FH 80mm x 300m                | O29              | 2500         |
| TEP 76.2x50.8       | 86496529  | Silver        | 3.0 x 2.0                            |                                  | 3.15                  | FH 80mm x 300m                | P29              | 2500         |
| TEP 80x8            | 86496130  | White         | 3.15 x 0.31                          |                                  | 3.35                  | FH 90mm x 300m                | N30              | 3000         |
| TEP 80x8            | 86496530  | Silver        | 3.15 x 0.31                          |                                  | 3.35                  | FH 90mm x 300m                | P30              | 3000         |
| TEP 80x40           | 86496131  | White         | 3.15 x 1.57                          |                                  | 3.35                  | FH 90mm x 300m                | N31              | 3000         |
| TEP 80x40           | 86496331  | Yellow        | 3.15 x 1.57                          |                                  | 3.35                  | FH 90mm x 300m                | O31              | 3000         |
| TEP 80x40           | 86496531  | Silver        | 3.15 x 1.57                          |                                  | 3.35                  | FH 90mm x 300m                | P31              | 3000         |
| TEP 90x45           | 86496132  | White         | 3.54 x 1.77                          |                                  | 3.78                  | FH 110mm x 300m               | N32              | 2500         |
| TEP 90x45           | 86496532  | Silver        | 3.54 x 1.77                          |                                  | 3.78                  | FH 110mm x 300m               | P32              | 2500         |
| TEP 90x60           | 86496133  | White         | 3.54 x 2.36                          |                                  | 3.78                  | FH 110mm x 300m               | N33              | 2000         |
| TEP 90x60           | 86496333  | Yellow        | 3.54 x 2.36                          |                                  | 3.78                  | FH 110mm x 300m               | O33              | 2000         |
| TEP 90x60           | 86496533  | Silver        | 3.54 x 2.36                          |                                  | 3.78                  | FH 110mm x 300m               | P33              | 2000         |
| TEP 100x150         | 86496134  | White         | 3.94 x 5.91                          |                                  | 4.09                  | FH 110mm x 300m               | N34              | 500          |
| TEP 100x150         | 86496334  | Yellow        | 3.94 x 5.91                          |                                  | 4.09                  | FH 110mm x 300m               | O34              | 500          |
| TEP 100x150         | 86496534  | Silver        | 3.94 x 5.91                          |                                  | 4.09                  | FH 110mm x 300m               | P34              | 500          |
| TEP 105x52          | 86496135  | White         | 4.13 x 2.05                          |                                  | 4.33                  | FH 110mm x 300m               | N35              | 1000         |
| TEP 105x52          | 86496335  | Yellow        | 4.13 x 2.05                          |                                  | 4.33                  | FH 110mm x 300m               | O35              | 1000         |
| TEP 105x52          | 86496535  | Silver        | 4.13 x 2.05                          |                                  | 4.33                  | FH 110mm x 300m               | P35              | 1000         |
| TEP 105x52          | 86496145  | Signal yellow | 4.13 x 2.05                          |                                  | 4.33                  | FH 110mm x 300m               | A67              | 1000         |
| <b>Safety label</b> |           |               |                                      |                                  |                       |                               |                  |              |
| TEP 16x9            | 86496549  | Silver        | 0.63 x 0.35                          |                                  | 3.86                  | FH 110mm x 300m               | N81              | 10000        |

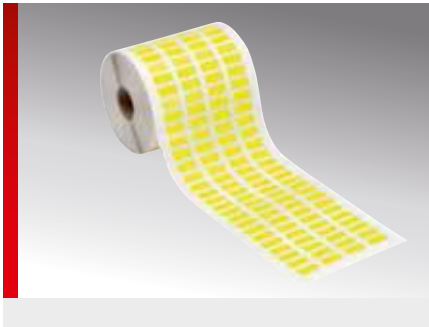
# TEP - polyester label (Continued...)



| Type                                                           | Order No. | Color  | Label size<br>length x width<br>inch | Sheet labels<br>diameter<br>inch | Roll<br>width<br>inch | Recommended<br>printer ribbon | Software<br>type | Pack<br>qty. |
|----------------------------------------------------------------|-----------|--------|--------------------------------------|----------------------------------|-----------------------|-------------------------------|------------------|--------------|
| <b>Round design</b>                                            |           |        |                                      |                                  |                       |                               |                  |              |
| TEP Ø 30.0                                                     | 86496340  | Yellow |                                      | 1.18                             | 4.25                  | FH 110mm x 300m               | O40              | 3000         |
| TEP Ø 30.0                                                     | 86496540  | Silver |                                      | 1.18                             | 4.25                  | FH 110mm x 300m               | P40              | 3000         |
| <b>Continuous-feed material; roll length 40 m<sup>1)</sup></b> |           |        |                                      |                                  |                       |                               |                  |              |
| TEP 25E <sup>1)</sup>                                          | 86496141  | White  | 0.98                                 |                                  | 1.18                  | FH 40mm x 300m                | N41              | 131.23       |
| TEP 25E <sup>1)</sup>                                          | 86496541  | Silver | 0.98                                 |                                  | 1.18                  | FH 40mm x 300m                | P41              | 131.23       |
| TEP 50E <sup>1)</sup>                                          | 86496142  | White  | 1.97                                 |                                  | 2.17                  | FH+ 55mm x 300m               | N42              | 131.23       |
| TEP 50E <sup>1)</sup>                                          | 86496342  | Yellow | 1.97                                 |                                  | 2.17                  | FH+ 55mm x 300m               | O42              | 131.23       |
| TEP 50E <sup>1)</sup>                                          | 86496542  | Silver | 1.97                                 |                                  | 2.17                  | FH+ 55mm x 300m               | P42              | 131.23       |
| TEP 75E <sup>1)</sup>                                          | 86496143  | White  | 2.95                                 |                                  | 3.15                  | FH 80mm x 300m                | N43              | 131.23       |
| TEP 75E <sup>1)</sup>                                          | 86496343  | Yellow | 2.95                                 |                                  | 3.15                  | FH 80mm x 300m                | O43              | 131.23       |
| TEP 75E <sup>1)</sup>                                          | 86496543  | Silver | 2.95                                 |                                  | 3.15                  | FH 80mm x 300m                | P43              | 131.23       |
| TEP 100E <sup>1)</sup>                                         | 86496144  | White  | 3.94                                 |                                  | 4.13                  | FH 110mm x 300m               | N44              | 131.23       |
| TEP 100E <sup>1)</sup>                                         | 86496344  | Yellow | 3.94                                 |                                  | 4.13                  | FH 110mm x 300m               | O44              | 131.23       |
| TEP 100E <sup>1)</sup>                                         | 86496544  | Silver | 3.94                                 |                                  | 4.13                  | FH 110mm x 300m               | P44              | 131.23       |

<sup>1)</sup>Label size information for continuous-feed material = label size

## TEG - fabric label



### PRODUCT INFORMATION

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

TEG - fabric labels are suitable for

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

**Suitable for use with pavonis thermal transfer printers and the mp-TM series (with external unwinder).**

### SPECIFICATIONS

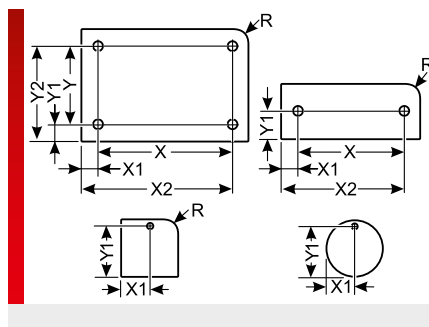
|                                                                                                                                                                                                                                                                      |                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|                                                                                                                                                                                   | -22.00 – 212.00 °F                                                    |
|                                                                                                                                                                                   | Nylon fabric                                                          |
|                                                                                                                                                                                   | Label rail with thermal transfer printer<br>Roll core diameter 1 inch |
| <div></div> |                                                                       |

| Type          | Order No. | Color  | Label size<br>length x width<br>inch | Roll<br>width<br>inch | Recommended<br>printer ribbon | Soft-<br>ware<br>type | Pack<br>qty. |
|---------------|-----------|--------|--------------------------------------|-----------------------|-------------------------------|-----------------------|--------------|
| TEG 11x6      | 86497121  | White  | 0.43 x 0.24                          | 3.70                  | FH 110mm x 300m               | N80                   | 10000        |
| TEG 15x6      | 86497315  | Yellow | 0.59 x 0.24                          | 4.13                  | FH 110mm x 300m               | 071                   | 10000        |
| TEG 15x9      | 86497116  | White  | 0.59 x 0.35                          | 4.13                  | FH 110mm x 300m               | N72                   | 10000        |
| TEG 15x9      | 86497316  | Yellow | 0.59 x 0.35                          | 4.13                  | FH 110mm x 300m               | 072                   | 10000        |
| TEG 17x6      | 86497317  | Yellow | 0.67 x 0.24                          | 3.78                  | FH 110mm x 300m               | 073                   | 10000        |
| TEG 17x9      | 86497318  | Yellow | 0.67 x 0.35                          | 3.78                  | FH 110mm x 300m               | 074                   | 10000        |
| TEG 18x8      | 86497100  | White  | 0.71 x 0.31                          | 4.13                  | FH 110mm x 300m               | N56                   | 10000        |
| TEG 18x8      | 86497300  | Yellow | 0.71 x 0.31                          | 4.13                  | FH 110mm x 300m               | 056                   | 10000        |
| TEG 19x6      | 86497319  | Yellow | 0.75 x 0.24                          | 3.35                  | FH 90mm x 300m                | 075                   | 10000        |
| TEG 19x9      | 86497320  | Yellow | 0.75 x 0.35                          | 3.35                  | FH 90mm x 300m                | 076                   | 10000        |
| TEG 20x8      | 86497102  | White  | 0.79 x 0.31                          | 4.13                  | FH 110mm x 300m               | N58                   | 10000        |
| TEG 20x8      | 86497302  | Yellow | 0.79 x 0.31                          | 4.13                  | FH 110mm x 300m               | 058                   | 10000        |
| TEG 25x8      | 86497305  | Yellow | 0.98 x 0.31                          | 3.35                  | FH 90mm x 300m                | 061                   | 10000        |
| TEG 25.4x12.7 | 86497106  | White  | 1.0 x 0.5                            | 3.35                  | FH 90mm x 300m                | N62                   | 9000         |
| TEG 25.4x12.7 | 86497306  | Yellow | 1.0 x 0.5                            | 3.35                  | FH 90mm x 300m                | 062                   | 9000         |
| TEG 38x19     | 86497109  | White  | 1.5 x 0.75                           | 3.35                  | FH 90mm x 300m                | N65                   | 4000         |
| TEG 38x19     | 86497309  | Yellow | 1.5 x 0.75                           | 3.35                  | FH 90mm x 300m                | 065                   | 4000         |
| TEG 38.1x6.35 | 86497108  | White  | 1.5 x 0.25                           | 3.35                  | FH 90mm x 300m                | N64                   | 10000        |
| TEG 50.8x25.4 | 86497111  | White  | 2.0 x 1.0                            | 2.24                  | FH 60mm x 300m                | N67                   | 3000         |
| TEG 50.8x25.4 | 86497311  | Yellow | 2.0 x 1.0                            | 2.24                  | FH 60mm x 300m                | 067                   | 3000         |
| TEG 76.2x25.4 | 86497113  | White  | 3.0 x 1.0                            | 3.15                  | FH 80mm x 300m                | N69                   | 3000         |





## EST stainless steel type plate



## PRODUCT INFORMATION

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

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

### Special design for demanding environments

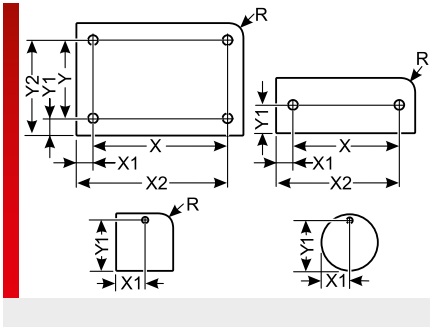
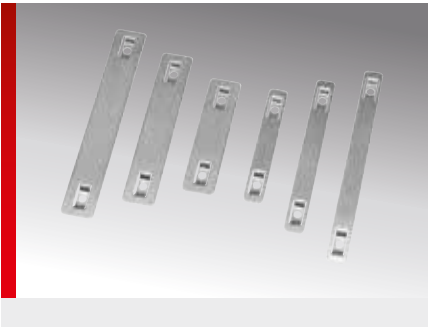
- in the chemical or petrochemical industries
- in the mining industry
- in the ship building industry
- in wind energy plants
- in the food industry

## SPECIFICATIONS

 -112.00 – 932.00 °F  
 Stainless steel V4A  
 V0  
 Single-line and multi-line inscription

| Type                         | Order No.  | Color                   | Material thickness<br>inch | Printable area<br>inch | No. characters/<br>lines | Hole pattern<br>Number x<br>Ø in | Software<br>type | Pack<br>qty. |
|------------------------------|------------|-------------------------|----------------------------|------------------------|--------------------------|----------------------------------|------------------|--------------|
| Stainless steel single label |            |                         |                            |                        |                          |                                  |                  |              |
| EST 30x30 R5                 | 8605148007 | Brushed stainless steel | 0.04                       | 1.18 x 0.87            | 16 / 6                   | 1x 0.16                          | A62              | 90           |
| EST 52x26 R3                 | 8605148006 | Brushed stainless steel | 0.04                       | 1.46 x 1.02            | 20 / 7                   | 2x 0.10                          | L16              | 40           |
| EST 74x37 R3                 | 8605148005 | Brushed stainless steel | 0.04                       | 2.32 x 1.46            | 32 / 10                  | 4x 0.10                          | L15              | 20           |
| EST 84x54 R3                 | 8605148004 | Brushed stainless steel | 0.04                       | 2.72 x 2.13            | 38 / 15                  | 4x 0.10                          | L14              | 10           |
| EST 100x60 R5                | 8605148003 | Brushed stainless steel | 0.04                       | 3.25 x 2.36            | 45 / 17                  | 4x 0.15                          | L13              | 10           |
| EST 120x70 R5                | 8605148002 | Brushed stainless steel | 0.04                       | 4.04 x 2.76            | 56 / 20                  | 4x 0.15                          | L12              | 10           |
| EST 139x85 R5                | 8605148001 | Brushed stainless steel | 0.04                       | 4.78 x 3.35            | 67 / 25                  | 4x 0.15                          | L11              | 10           |
| EST 139x139 R5               | 8605148000 | Brushed stainless steel | 0.04                       | 4.78 x 5.47            | 67 / 40                  | 4x 0.15                          | L10              | 10           |

# ESK cable designation on stainless steel



## PRODUCT INFORMATION

V4A stainless steel labels for cable designation with a material thickness of 0.02 in (0.5 mm). Mounted with cable ties. The labels are installed on a plastic holder.

Marking can only be done with a laser printer system (e.g. mp-LM series).

Special design for demanding environments

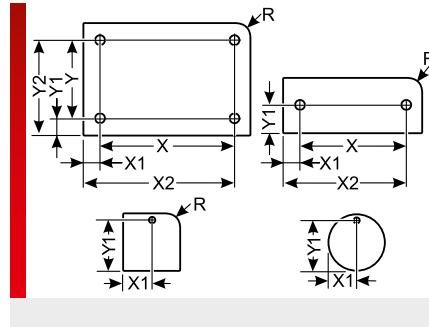
- in the chemical or petrochemical industries
- in the mining industry
- in the ship building industry
- in wind energy plants
- in the food industry

## SPECIFICATIONS

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

| Type         | Order No.  | Color                   | Material thickness inch | Printable area inch | No. characters/lines | Hole pattern Number x Ø in | No. per frame | Software type | Pack qty. |
|--------------|------------|-------------------------|-------------------------|---------------------|----------------------|----------------------------|---------------|---------------|-----------|
| ESK 60x9 L   | 8605190015 | Brushed stainless steel | 0.02                    | 1.1 x 0.35          | 15 / 2               | 2x 0.14                    | 10            | L05           | 30        |
| ESK 80x9 L   | 8605190014 | Brushed stainless steel | 0.02                    | 1.89 x 0.35         | 26 / 2               | 2x 0.14                    | 10            | L04           | 30        |
| ESK 100x9 L  | 8605190013 | Brushed stainless steel | 0.02                    | 2.68 x 0.35         | 37 / 2               | 2x 0.14                    | 10            | L03           | 30        |
| ESK 60x15 L  | 8605190012 | Brushed stainless steel | 0.02                    | 1.1 x 0.59          | 15 / 4               | 2x 0.14                    | 7.00          | L02           | 21        |
| ESK 80x15 L  | 8605190011 | Brushed stainless steel | 0.02                    | 1.89 x 0.59         | 26 / 4               | 2x 0.14                    | 7.00          | L01           | 21        |
| ESK 100x15 L | 8605190010 | Brushed stainless steel | 0.02                    | 2.68 x 0.59         | 37 / 4               | 2x 0.14                    | 7.00          | L00           | 21        |

## LA Laser alu



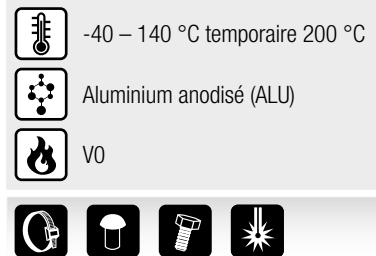
### INFORMATIONS PRODUITS

The laser has served us well for years, especially for engraving and labelling of metals.

Marking anodised aluminium with the laser produces great contrast, durability, precision, great readability and can be done with great speed.

- Optionally available with self-adhesive foil (SK), strong self-adhesive foil (SSK) or adhesive foil (HF)
- Available in square versions with and without corner radius, in round versions (circular blanks), optionally with holes, slots or granulation

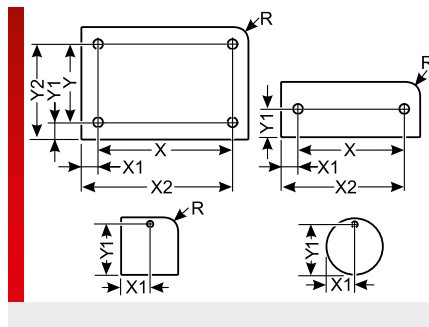
### SPÉCIFICATIONS



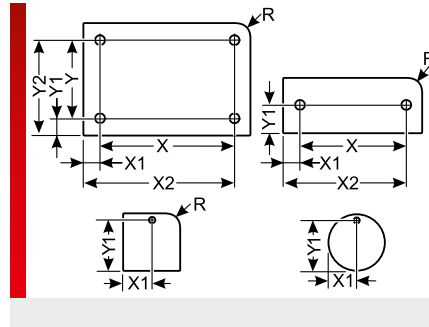
| Type                                       | Order No.  | Colour          | Label size in | Printable area in | No. characters/lines | Hole patterns Number x Ø in | Diameter in | No. per frame | Software type | Pack qty. |
|--------------------------------------------|------------|-----------------|---------------|-------------------|----------------------|-----------------------------|-------------|---------------|---------------|-----------|
| <b>Rectangular without radius</b>          |            |                 |               |                   |                      |                             |             |               |               |           |
| LA 45x12 HF                                | 8610100037 | Black           | 1.77 x 0.47   | 1.77 x 0.47       | 25 / 3               |                             |             | 16            | LI7           | 64        |
| LA 45x12 SK                                | 8610100042 | Black           | 1.77 x 0.47   | 1.77 x 0.47       | 25 / 3               |                             |             | 16            | LM8           | 64        |
| <b>Rectangular without radius, 1x hole</b> |            |                 |               |                   |                      |                             |             |               |               |           |
| LA 45x29 HF, 1x22,5MM                      | 8610100050 | Black           | 1.77 x 1.14   | 0.71 x 1.14       | 10 / 8               | 1x 0.89                     |             | 6             | LR2           | 24        |
| <b>Rectangular without radius, 2x hole</b> |            |                 |               |                   |                      |                             |             |               |               |           |
| LA 40x10 HF, 2x3,0MM                       | 8610100051 | Silver          | 1.57 x 0.39   | 0.94 x 0.39       | 13 / 2               | 2x 0.12                     |             | 20            | LR3           | 80        |
| LA 40x15 HF, 2x3,0MM                       | 8610100059 | Silver          | 1.57 x 0.59   | 0.94 x 0.59       | 13 / 4               | 2x 0.12                     |             | 14            | LS6           | 56        |
| <b>Rectangular with radius</b>             |            |                 |               |                   |                      |                             |             |               |               |           |
| LA 30x15 R2 SKS                            | 8610100029 | Silver          | 1.18 x 0.59   | 1.18 x 0.59       | 16 / 4               |                             |             | 21            | LH9           | 84        |
| LA 40x80 R2 SK                             | 8610100036 | Silver          | 1.57 x 3.15   | 1.57 x 3.15       | 22 / 23              |                             |             | 2             | LI6           | 8         |
| LA 50x15 R2 SKS                            | 8610100034 | Black           | 1.97 x 0.59   | 1.97 x 0.59       | 27 / 4               |                             |             | 14            | LI4           | 56        |
| LA 50x15 R2 SKS                            | 8610100035 | Silver          | 1.97 x 0.59   | 1.97 x 0.59       | 27 / 4               |                             |             | 14            | LI5           | 56        |
| LA 100x50 R2 SKS                           | 8610100032 | Black           | 3.94 x 1.97   | 3.94 x 1.97       | 55 / 14              |                             |             | 2             | LI2           | 8         |
| LA 100x50 R2 SKS                           | 8610100031 | Silver          | 3.94 x 1.97   | 3.94 x 1.97       | 55 / 14              |                             |             | 2             | LI1           | 8         |
| LA 100x100 R2 SKS                          | 8610100033 | Silver          | 3.94 x 3.94   | 3.94 x 3.94       | 55 / 29              |                             |             | 1             | LI3           | 4         |
| LA 110x30 R4 SKS                           | 8610100040 | Black           | 4.33 x 1.18   | 4.33 x 1.18       | 61 / 8               |                             |             | 2             | LL8           | 12        |
| <b>Rectangular with radius, 1x hole</b>    |            |                 |               |                   |                      |                             |             |               |               |           |
| LA 20x20 R7 HF, 1x2,5MM                    | 8610100039 | Black           | 0.79 x 0.79   | 0.79 x 0.53       | 11 / 3               | 1x 0.10                     |             | 25            | LL5           | 100       |
| <b>Rectangular with radius, 2x hole</b>    |            |                 |               |                   |                      |                             |             |               |               |           |
| LA 30x15 R2 HF, 2x3,5MM                    | 8610100002 | Anodised silver | 1.18 x 0.59   | 0.67 x 0.59       | 9 / 4                | 2x 0.14                     |             | 21            | LC1           | 72        |

## LA Laser alu (suite)

| Type                                           | Order No.  | Colour          | Label size<br>in | Printable<br>area<br>in | No.<br>characters/<br>lines | Hole patterns<br>Number x<br>Ø in | Diameter<br>in | No.<br>per<br>frame | Soft-<br>ware<br>type | Pack<br>qty. |
|------------------------------------------------|------------|-----------------|------------------|-------------------------|-----------------------------|-----------------------------------|----------------|---------------------|-----------------------|--------------|
| LA 30x15 R2 HF, 2x3,5MM                        | 8610100016 | Anodised black  | 1.18 x 0.59      | 0.67 x 0.59             | 9 / 4                       | 2x 0.14                           |                | 21                  | LD5                   | 72           |
| LA 30x15 R2 HF, 2x4,2MM                        | 8610100004 | Anodised silver | 1.18 x 0.59      | 0.59 x 0.59             | 8 / 4                       | 2x 0.17                           |                | 21                  | LC3                   | 72           |
| LA 30x15 R2 HF, 2x4,2MM                        | 8610100018 | Anodised black  | 1.18 x 0.59      | 0.59 x 0.59             | 8 / 4                       | 2x 0.17                           |                | 21                  | LD7                   | 72           |
| LA 40x15 R2 HF, 2x3,0MM                        | 8610100056 | Silver          | 1.57 x 0.59      | 0.98 x 0.59             | 13 / 4                      | 2x 0.12                           |                | 14                  | LS3                   | 56           |
| LA 50x15 R2 HF, 2x3,0MM                        | 8610100003 | Anodised silver | 1.97 x 0.59      | 1.42 x 0.59             | 20 / 4                      | 2x 0.12                           |                | 12                  | LC2                   | 48           |
| LA 50x15 R2 HF, 2x3,0MM                        | 8610100017 | Anodised black  | 1.97 x 0.59      | 1.42 x 0.59             | 20 / 4                      | 2x 0.12                           |                | 12                  | LD6                   | 48           |
| LA 50x15 R2 HF, 2x4,2MM                        | 8610100005 | Anodised silver | 1.97 x 0.59      | 1.34 x 0.59             | 18 / 4                      | 2x 0.17                           |                | 12                  | LC4                   | 48           |
| LA 50x15 R2 HF, 2x4,2MM                        | 8610100019 | Anodised black  | 1.97 x 0.59      | 1.34 x 0.59             | 18 / 4                      | 2x 0.17                           |                | 12                  | LD8                   | 48           |
| LA 50x15,1 R2 HF, 2x3,5MM                      | 8610100048 | Silver          | 1.97 x 0.59      | 1.28 x 0.59             | 18 / 4                      | 2x 0.14                           |                | 12                  | LO2                   | 48           |
| LA 52x18 R2 HF, 2x2,8MM                        | 8610100006 | Anodised silver | 2.05 x 0.71      | 1.50 x 0.71             | 21 / 5                      | 2x 0.11                           |                | 10                  | LC5                   | 40           |
| LA 52x18 R2 HF, 2x2,8MM                        | 8610100020 | Anodised black  | 2.05 x 0.71      | 1.50 x 0.71             | 21 / 5                      | 2x 0.11                           |                | 10                  | LD9                   | 40           |
| LA 52x18 R2 HF, 2x3,2MM                        | 8610100052 | Silver          | 2.05 x 0.71      | 1.50 x 0.71             | 21 / 5                      | 2x 0.13                           |                | 10                  | LR9                   | 40           |
| LA 55x35 R2 HF, 2x3,0MM                        | 8610100057 | Silver          | 2.17 x 1.38      | 1.57 x 1.38             | 22 / 10                     | 2x 0.12                           |                | 6                   | LS4                   | 24           |
| LA 60x40 R3 HF, 2x4,5MM                        | 8610100053 | Silver          | 2.36 x 1.57      | 1.61 x 1.57             | 22 / 11                     | 2x 0.18                           |                | 2                   | LS0                   | 8            |
| LA 70x27 R2 HF, 2x3,3MM                        | 8610100054 | Silver          | 2.76 x 1.06      | 2.17 x 1.06             | 30 / 7                      | 2x 0.13                           |                | 4                   | LS1                   | 16           |
| LA 74x18 R2,5 HF, 2x3,2MM                      | 8610100028 | Anodised black  | 2.91 x 0.71      | 2.39 x 0.71             | 33 / 5                      | 2x 0.13                           |                | 6                   | LE7                   | 24           |
| LA 80x18 R2 HF, 2x3,2MM                        | 8610100055 | Silver          | 3.15 x 0.71      | 2.66 x 0.71             | 37 / 5                      | 2x 0.13                           |                | 5                   | LS2                   | 20           |
| LA 100x50 R2 HF, 2x3,0MM                       | 8610100058 | Silver          | 3.94 x 1.97      | 3.35 x 1.97             | 47 / 14                     | 2x 0.12                           |                | 2                   | LS5                   | 8            |
| <b>Rectangular with radius, 4x hole</b>        |            |                 |                  |                         |                             |                                   |                |                     |                       |              |
| LA 60x15 R2 HF, 4x3,0MM                        | 8610100043 | Silver          | 2.36 x 0.59      | 1.77 x 0.59             | 25 / 4                      | 4x 0.12                           |                | 7                   | LM9                   | 28           |
| LA 60x30 R2 HF, 4x3,0MM                        | 8610100044 | Silver          | 2.36 x 1.18      | 1.77 x 1.18             | 25 / 8                      | 4x 0.12                           |                | 3                   | LN0                   | 12           |
| LA 100x40 R2 SK, 4x3,0MM                       | 8610100030 | Silver          | 3.94 x 1.57      | 3.35 x 1.57             | 47 / 11                     | 4x 0.12                           |                | 2                   | LI0                   | 8            |
| LA 100x50 R2 SK, 4x2,5MM                       | 8610100049 | Silver          | 3.94 x 1.97      | 3.40 x 1.97             | 48 / 14                     | 4x 0.10                           |                | 2                   | LQ2                   | 8            |
| LA 100x60 R2 HF, 4x3,0MM                       | 8610100045 | Silver          | 3.94 x 2.36      | 3.35 x 2.36             | 47 / 17                     | 4x 0.12                           |                | 1                   | LN1                   | 4            |
| LA 111x111 R2 HF, 4x3,0MM                      | 8610100046 | Silver          | 4.37 x 4.37      | 3.78 x 4.37             | 53 / 32                     | 4x 0.12                           |                | 1                   | LN2                   | 4            |
| <b>Rectangular with radius, 4x oblong hole</b> |            |                 |                  |                         |                             |                                   |                |                     |                       |              |
| LA 40x12 R1,5 HF, 4x (5x3MM)                   | 8610100007 | Anodised silver | 1.57 x 0.47      | 0.91 x 0.47             | 12 / 3                      | 4x (0.20x0.12)                    |                | 16                  | LC6                   | 64           |
| LA 40x12 R1,5 HF, 4x (5x3MM)                   | 8610100021 | Anodised black  | 1.57 x 0.47      | 0.91 x 0.47             | 12 / 3                      | 4x (0.20x0.12)                    |                | 16                  | LE0                   | 64           |
| LA 40x12 R2 HF, 4x (5x3MM)                     | 8610100047 | Silver          | 1.57 x 0.47      | 0.91 x 0.47             | 12 / 3                      | 4x (0.20x0.12)                    |                | 16                  | LO0                   | 64           |
| LA 60x12 R2 HF, 4x (5x3MM)                     | 8610100001 | Anodised silver | 2.36 x 0.47      | 1.65 x 0.47             | 23 / 3                      | 4x (0.20x0.12)                    |                | 8                   | LC0                   | 32           |
| LA 60x12 R2 HF, 4x (5x3MM)                     | 8610100015 | Anodised black  | 2.36 x 0.47      | 1.65 x 0.47             | 23 / 3                      | 4x (0.20x0.12)                    |                | 8                   | LD4                   | 32           |
| LA 60x17 R1,5 HF, 4x (7x3MM)                   | 8610100000 | Anodised silver | 2.36 x 0.67      | 1.42 x 0.67             | 20 / 5                      | 4x (0.28x0.12)                    |                | 6                   | LB9                   | 24           |
| LA 60x17 R1,5 HF, 4x (7x3MM)                   | 8610100014 | Anodised black  | 2.36 x 0.67      | 1.42 x 0.67             | 20 / 5                      | 4x (0.28x0.12)                    |                | 6                   | LD3                   | 24           |
| <b>Circular blanks (round version), 1 hole</b> |            |                 |                  |                         |                             |                                   |                |                     |                       |              |
| LA Ronds D=20 HF, 1x3,5MM                      | 8610100008 | Anodised silver |                  |                         |                             | 1x 0.14                           | 0.79           | 25                  | LC7                   | 100          |
| LA Ronds D=20 HF, 1x3,5MM                      | 8610100022 | Anodised black  |                  |                         |                             | 1x 0.14                           | 0.79           | 25                  | LE1                   | 100          |
| LA Ronds D=20 HF, 1x4,2MM                      | 8610100011 | Anodised silver |                  |                         |                             | 1x 0.17                           | 0.79           | 25                  | LD0                   | 100          |
| LA Ronds D=20 HF, 1x4,2MM                      | 8610100025 | Anodised black  |                  |                         |                             | 1x 0.17                           | 0.79           | 25                  | LE4                   | 100          |
| LA Ronds D=25 HF, 1x3,5MM                      | 8610100038 | Black           |                  |                         |                             | 1x 0.13                           | 0.98           | 16                  | LL4                   | 64           |
| LA Ronds D=25 HF, 1x3,5MM                      | 8610100009 | Anodised silver |                  |                         |                             | 1x 0.14                           | 0.98           | 16                  | LC8                   | 64           |
| LA Ronds D=25 HF, 1x3,5MM                      | 8610100023 | Anodised black  |                  |                         |                             | 1x 0.14                           | 0.98           | 16                  | LE2                   | 64           |
| LA Ronds D=25 HF, 1x4,2MM                      | 8610100012 | Anodised silver |                  |                         |                             | 1x 0.17                           | 0.98           | 16                  | LD1                   | 64           |
| LA Ronds D=25 HF, 1x4,2MM                      | 8610100026 | Anodised black  |                  |                         |                             | 1x 0.17                           | 0.98           | 16                  | LE5                   | 64           |



## LAM Laser Alumat



### INFORMATIONS PRODUITS

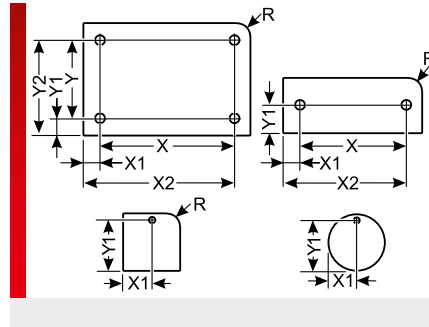
Laser Alumat consists of coated aluminium, suitable for laser engraving. The surface is coated for laser engraving. After laser marking with a Murrplastik mp-LM series laser marking system the engraving appears in black.

### SPÉCIFICATIONS

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  | -20 – 80 °C temporaire 120 °C                                                       |                                                                                     |                                                                                     |
|  | Aluminium laqué (ALU)                                                               |                                                                                     |                                                                                     |
|  | A1                                                                                  |                                                                                     |                                                                                     |
|  |  |  |  |

| Type                                              | Order No.  | Colour | Label size in | Printable area in | No. characters/lines | Hole patterns Number x Ø in | Diameter in | No. per frame | Software type | Pack qty. |
|---------------------------------------------------|------------|--------|---------------|-------------------|----------------------|-----------------------------|-------------|---------------|---------------|-----------|
| <b>Rectangular with radius</b>                    |            |        |               |                   |                      |                             |             |               |               |           |
| LAM 25x10 R2 SK                                   | 8610140061 | Silver | 0.98 x 0.39   | 0.98 x 0.39       | 13 / 2               |                             |             | 40            | LQ3           | 160       |
| LAM 30x10 R2 SKS                                  | 8610140057 | Silver | 1.18 x 0.39   | 1.18 x 0.39       | 16 / 2               |                             |             | 30            | LP2           | 120       |
| LAM 55x55 R2 SK                                   | 8610140055 | Silver | 2.17 x 2.17   | 2.17 x 2.17       | 30 / 16              |                             |             | 4             | LN4           | 16        |
| LAM 70x18 R2 SKS                                  | 8610140060 | Silver | 2.76 x 0.71   | 2.76 x 0.71       | 38 / 5               |                             |             | 5             | LP8           | 20        |
| <b>Rectangular without radius, 1x hole</b>        |            |        |               |                   |                      |                             |             |               |               |           |
| LAM 30x12 HF, 1x2,5MM                             | 8610140044 | Silver | 1.18 x 0.47   | 1.18 x 6,0        | 16 / 1               | 1x 0.10                     |             | 24            | LG8           | 96        |
| <b>Rectangular without radius, 2x hole</b>        |            |        |               |                   |                      |                             |             |               |               |           |
| LAM 36x36 HF, 2x2,5MM                             | 8610140038 | Silver | 1.42 x 1.42   | 1.02 x 1.42       | 14 / 10              | 2x 0.10                     |             | 9             | LG3           | 36        |
| LAM 37x9 HF, 2x2,5MM                              | 8610140037 | Silver | 1.46 x 0.35   | 1 x 0.35          | 14 / 2               | 2x 0.10                     |             | 33            | LG4           | 132       |
| LAM 40x15 HF, 2x3,2MM                             | 8610140033 | Silver | 1.57 x 0.59   | 0.93 x 0.59       | 13 / 4               | 2x 0.13                     |             | 14            | LG6           | 56        |
| LAM 40x25 HF, 2x3,2MM                             | 8610140034 | Silver | 1.57 x 0.98   | 0.93 x 0.98       | 13 / 7               | 2x 0.13                     |             | 8             | LG7           | 32        |
| LAM 40x25 HF, 2x3,5MM                             | 8610140051 | Silver | 1.57 x 0.98   | 0.98 x 0.98       | 13 / 7               | 2x 0.14                     |             | 8             | LM4           | 32        |
| LAM 40x40 HF, 2x3,5MM                             | 8610140052 | Silver | 1.57 x 1.57   | 0.98 x 1.57       | 13 / 11              | 2x 0.14                     |             | 4             | LM5           | 16        |
| LAM 60x25 HF, 2x3,5MM                             | 8610140053 | Silver | 2.36 x 0.98   | 1.77 x 0.98       | 25 / 7               | 2x 0.14                     |             | 4             | LM6           | 16        |
| LAM 60x40 HF, 2x3,5MM                             | 8610140054 | Silver | 2.36 x 1.57   | 1.77 x 1.57       | 25 / 11              | 2x 0.14                     |             | 2             | LM7           | 8         |
| LAM 74x52 SK, 2x2,6MM                             | 8610140049 | Silver | 2.91 x 2.05   | 2.48 x 2.05       | 35 / 15              | 2x 0.10                     |             | 2             | LK9           | 8         |
| <b>Rectangular without radius, 4x oblong hole</b> |            |        |               |                   |                      |                             |             |               |               |           |
| LAM 40x12 HF, 4x (5,0x3,0MM)                      | 8610140056 | Silver | 1.57 x 0.47   | 0.79 x 0.47       | 11 / 3               | 4x (0.20x0.12)              |             | 16            | L01           | 64        |
| <b>Rectangular without radius, 4x hole</b>        |            |        |               |                   |                      |                             |             |               |               |           |
| LAM 74x52 SK, 4x2,6MM                             | 8610140050 | Silver | 2.91 x 2.05   | 2.32 x 2.05       | 32 / 15              | 4x 0.10                     |             | 2             | LL6           | 8         |

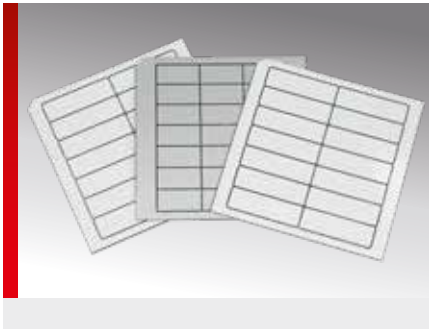
## LAM Laser Alumat (suite)



| Type                                           | Order No.  | Colour | Label size in | Printable area in | No. characters/lines | Hole patterns Number x Ø in | Dia-meter in | No. per frame | Software type | Pack qty. |
|------------------------------------------------|------------|--------|---------------|-------------------|----------------------|-----------------------------|--------------|---------------|---------------|-----------|
| <b>Rectangular with radius, 1x hole</b>        |            |        |               |                   |                      |                             |              |               |               |           |
| LAM 20x20 R7 HF, 1x2,5MM                       | 8610140046 | Silver | 0.79 x 0.79   | 0.79 x 13,7       | 11 / 4               | 1x 0.10                     |              | 25            | LK4           | 100       |
| <b>Rectangular with radius, 2x hole</b>        |            |        |               |                   |                      |                             |              |               |               |           |
| LAM 30x15 R2 HF, 2x3,5MM                       | 8610140002 | Silver | 1.18 x 0.59   | 0.67 x 0.59       | 9 / 4                | 2x 0.14                     |              | 18            | LA2           | 72        |
| LAM 30x15 R2 HF, 2x4,2MM                       | 8610140004 | Silver | 1.18 x 0.59   | 0.59 x 0.59       | 8 / 4                | 2x 0.17                     |              | 18            | LA4           | 72        |
| LAM 37x13 R2 HF, 2x2,6MM                       | 8610140062 | Silver | 1.46 x 0.51   | 0.94 x 0.51       | 13 / 3               | 2x 0.10                     |              | 16            | LQ4           | 64        |
| LAM 37x13 R2 SK, 2x2,6MM                       | 8610140047 | Silver | 1.46 x 0.51   | 0.98 x 0.51       | 13 / 3               | 2x 0.10                     |              | 16            | LK7           | 64        |
| LAM 45x10 R2 HF, 2x2,5MM                       | 8610140045 | Silver | 1.77 x 0.39   | 1.28 x 0.39       | 18 / 2               | 2x 0.10                     |              | 20            | LI9           | 80        |
| LAM 50x15 R2 HF, 2x3,0MM                       | 8610140003 | Silver | 1.97 x 0.59   | 1.42 x 0.59       | 20 / 4               | 2x 0.12                     |              | 12            | LA3           | 48        |
| LAM 50x15 R2 HF, 2x4,2MM                       | 8610140005 | Silver | 1.97 x 0.59   | 1.34 x 0.59       | 18 / 4               | 2x 0.17                     |              | 12            | LA5           | 48        |
| LAM 52x18 R2 HF, 2x2,8MM                       | 8610140006 | Silver | 2.05 x 0.71   | 1.50 x 0.71       | 21 / 5               | 2x 0.11                     |              | 10            | LA6           | 40        |
| LAM 70x27 R2 HF, 2x3,3MM                       | 8610140039 | Silver | 2.76 x 1.06   | 2.18 x 1.06       | 30 / 7               | 2x 0.13                     |              | 4             | LH3           | 16        |
| <b>Rectangular with radius, 4x hole</b>        |            |        |               |                   |                      |                             |              |               |               |           |
| LAM 85x65 R2 HF, 4x4,0MM (E)                   | 8610140042 | Silver | 3.35 x 2.56   | 2.64 x 2.56       | 37 / 19              | 4x 0.16                     |              | 1             | LH6           | 4         |
| LAM 100x40 R2 HF, 4x3,3MM (E)                  | 8610140040 | Silver | 3.94 x 1.57   | 3.36 x 1.57       | 47 / 11              | 4x 0.13                     |              | 1             | LH4           | 4         |
| LAM 100x60 R2 HF, 4x3,3MM (E)                  | 8610140041 | Silver | 3.94 x 2.36   | 3.36 x 2.36       | 47 / 17              | 4x 0.13                     |              | 1             | LH5           | 4         |
| <b>Rectangular with radius, 2x oblong hole</b> |            |        |               |                   |                      |                             |              |               |               |           |
| LAM 37x9 R2 HF, 2x (2,8x5,0MM)                 | 8610140043 | Silver | 1.46 x 0.35   | 1 x 0.35          | 14 / 2               | 2x (0.11x0.20)              |              | 33            | LH8           | 132       |
| <b>Rectangular with radius, 4x oblong hole</b> |            |        |               |                   |                      |                             |              |               |               |           |
| LAM 34x10 R1 HF, 4x (5,4x2MM)                  | 8610140010 | Silver | 1.34 x 0.39   | 0.71 x 0.39       | 10 / 2               | 4x (0.21x0.08)              |              | 27            | LB0           | 108       |
| LAM 40x12 R1,5 HF, 4x (5x3MM)                  | 8610140007 | Silver | 1.57 x 0.47   | 0.91 x 0.47       | 12 / 3               | 4x (0.20x0.12)              |              | 16            | LA7           | 64        |
| LAM 44x10 R1 HF, 4x (5,4x2MM)                  | 8610140009 | Silver | 1.73 x 0.39   | 1.10 x 0.39       | 15 / 2               | 4x (0.21x0.08)              |              | 18            | LA9           | 72        |
| LAM 54x12 R1 HF, 4x (5,4x2MM)                  | 8610140008 | Silver | 2.13 x 0.47   | 1.50 x 0.47       | 21 / 3               | 4x (0.21x0.08)              |              | 16            | LA8           | 64        |
| LAM 54x20 R2 HF, 4x (6,0x2,5MM)                | 8610140059 | Silver | 2.13 x 0.79   | 1.30 x 0.79       | 18 / 5               | 4x (0.24x0.10)              |              | 10            | LP4           | 40        |
| LAM 60x12 R2 HF, 4x (5x3MM)                    | 8610140001 | Silver | 2.36 x 0.47   | 1.65 x 0.47       | 23 / 3               | 4x (0.20x0.12)              |              | 8             | LA1           | 32        |
| LAM 60x17 R1,5 HF, 4x (7x3MM)                  | 8610140000 | Silver | 2.36 x 0.67   | 1.42 x 0.67       | 20 / 5               | 4x (0.28x0.12)              |              | 6             | LA0           | 24        |
| LAM 64x14 R1 HF, 4x (5,4x2MM)                  | 8610140011 | Silver | 2.52 x 0.55   | 1.89 x 0.55       | 26 / 4               | 4x (0.21x0.08)              |              | 7             | LB1           | 28        |
| LAM 68x10 R1 HF, 4x (5,4x2MM)                  | 8610140012 | Silver | 2.68 x 0.39   | 2.09 x 0.39       | 29 / 2               | 4x (0.21x0.08)              |              | 9             | LB2           | 36        |
| LAM 80x20 R2 HF, 4x (6,0x2,5MM)                | 8610140058 | Silver | 3.15 x 0.79   | 2.32 x 0.79       | 32 / 5               | 4x (0.24x0.10)              |              | 5             | LP3           | 20        |
| <b>Circular blanks (round version), 1 hole</b> |            |        |               |                   |                      |                             |              |               |               |           |
| LAM D=20 HF, 1x3,5MM                           | 8610140013 | Silver |               |                   |                      | 1x 0.14                     | 0.79         | 25            | LB3           | 100       |
| LAM D=20 HF, 1x4,2MM                           | 8610140016 | Silver |               |                   |                      | 1x 0.17                     | 0.79         | 25            | LB6           | 100       |

[illegible]

## LM Laser Mat



### INFORMATIONS PRODUITS

Laser Mat is a double-layer material with an UV resistant colour outer layer for marking with a laser from the mp-LM family.

- Optionally available with self-adhesive foil (SK), strong self-adhesive foil (SSK) or adhesive foil (HF)

- Available in square versions with and without corner radius, in round versions (circular blanks), optionally with holes, slots or granulation
- Thickness: 0.03 in or 0.06 in (0.8 mm or 1.5 mm)

### SPÉCIFICATIONS



-20 – 85 °C



Marquage monoligne et multiligne



| Type                      | Order No.  | Colour               | Label size in | Printable area in | No. characters/lines | No. per frame | Software type | Pack qty. |
|---------------------------|------------|----------------------|---------------|-------------------|----------------------|---------------|---------------|-----------|
| <b>Rectangular design</b> |            |                      |               |                   |                      |               |               |           |
| LM 18.5x9.5 SK            | 8610200009 | Siemens silver/black | 0.03          | 0.73 x 0.37       | 10 / 2               | 55            | L98           | 220       |
| LM 22x10 SK               | 8610200003 | Siemens silver/black | 0.03          | 0.87 x 0.39       | 12 / 2               | 50            | L92           | 200       |
| LM 22x10 SK               | 8610200020 | White / Black        | 0.03          | 0.87 x 0.39       | 12 / 2               | 50            | LI8           | 200       |
| LM 22x22 SK               | 8610200002 | Siemens silver/black | 0.03          | 0.87 x 0.87       | 12 / 6               | 25            | L91           | 100       |
| LM 27x15 SK               | 8610200064 | White / Black        | 0.03          | 1.06 x 0.59       | 15 / 4               | 28            | LU2           | 112       |
| LM 27x18 HF               | 8610200043 | Siemens silver/black | 0.03          | 1.06 x 0.71       | 15 / 5               | 24            | LP9           | 96        |
| LM 27x18 HF               | 8610200084 | White / Black        | 0.03          | 1.06 x 0.71       | 15 / 5               | 24            | LZ6           | 96        |
| LM 27x18 SK               | 8610200004 | Siemens silver/black | 0.03          | 1.06 x 0.71       | 15 / 5               | 24            | L93           | 96        |
| LM 28x15 HF               | 8610200073 | White / Black        | 0.03          | 1.10 x 0.59       | 15 / 4               | 21            | LW0           | 84        |
| LM 30x15 SK               | 8610200028 | Siemens silver/black | 0.03          | 1.18 x 0.59       | 16 / 4               | 21            | LN5           | 84        |
| LM 30x15 HF               | 8610200016 | Siemens silver/black | 0.03          | 1.18 x 0.59       | 16 / 4               | 21            | M30           | 84        |
| LM 40x7.3 HF              | 8610200027 | White / Black        | 0.03          | 1.57 x 0.29       | 22 / 2               | 28            | LM2           | 112       |
| LM 40x9 HF                | 8610200055 | Siemens silver/black | 0.03          | 1.57 x 0.35       | 22 / 2               | 22            | LS7           | 88        |
| LM 40x20 SKS              | 8610200044 | White / Black        | 0.03          | 1.57 x 0.79       | 22 / 5               | 10            | LQ0           | 40        |
| LM 55x19 SKS              | 8610200077 | White / Black        | 0.03          | 2.17 x 0.75       | 30 / 5               | 10            | LY0           | 40        |
| LM 74x37 SKS              | 8610200061 | Siemens silver/black | 0.03          | 2.91 x 1.46       | 41 / 10              | 3             | LT7           | 12        |
| LM 95x45 SK               | 8610200098 | Siemens silver/black | 0.03          | 3.74 x 1.77       | 52 / 13              | 2             | LOZ           | 8         |
| LM 95x120 SK              | 8610200069 | White / Black        | 0.03          | 3.74 x 4.72       | 52 / 35              | 1             | LV1           | 4         |
| LM 120x120 HF             | 8610200046 | Siemens silver/black | 0.03          | 4.72 x 4.72       | 66 / 35              | 1             | LQ5           | 4         |
| LM 120x120 HF             | 8610200104 | White / Black        | 0.03          | 4.72 x 4.72       | 66 / 35              | 1             | L1H           | 4         |
| LM 120x120 HF             | 8610200103 | Yellow / Black       | 0.03          | 4.72 x 4.72       | 66 / 35              | 1             | L1G           | 4         |
| LM 120x120 SK             | 8610200047 | Siemens silver/black | 0.03          | 4.72 x 4.72       | 66 / 35              | 1             | LQ6           | 4         |
| LM 120x120 SKS            | 8610200048 | Siemens silver/black | 0.03          | 4.72 x 4.72       | 66 / 35              | 1             | LQ7           | 4         |

|                                                                                     |                                        |
|-------------------------------------------------------------------------------------|----------------------------------------|
|  | -112.00 – 932.00 °F                    |
|  | Stainless steel V4A                    |
|  | V0                                     |
|  | Single-line and multi-line inscription |

[illegible]

A 5x5 grid of 25 small, tilted rectangular labels, each containing a list of names and a date, likely for a classroom activity or project.



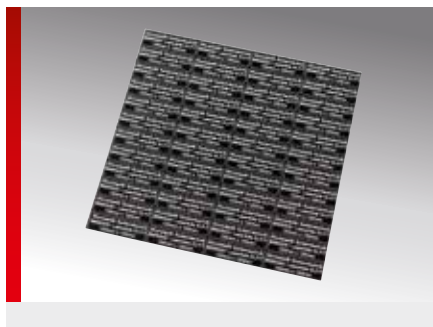
The halogen-free Polyacrylate foil is very resistant to chemicals, temperature and other environmental influences and in case of fire it is self-extinguishing after 15 seconds. Complete cover of high-contrast base colors. Labeling and cutting is done with a laser labeling system.

For laser inscribing of ELF laser label foil, you must scrub the exhaust air or route it outside (observing statutory provisions) as a precautionary measure to ensure that the strong odors that the machine can produce do not endanger the health of employees. An external extraction system can be connected directly to the MP laser labeling system using an adapter.

|                                                                                     |                                        |
|-------------------------------------------------------------------------------------|----------------------------------------|
|  | -40.00 – 572.00 °F                     |
|  | Polyacrylate                           |
|  | Single-line and multi-line inscription |
|  | External suction system mandatory      |

[illegible]

## ELF/T foil laser label



## PRODUCT INFORMATION

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

Complete cover of high-contrast base colors. Labeling and cutting is done with a laser labeling system. The user can freely define the size, shape and number of labels within the printable area.

- Highly resistant to chemicals, solvents, heat and weathering

- Forgery-proof: Manipulation leaves visible traces
- Cannot be detached without destruction

### External extraction system

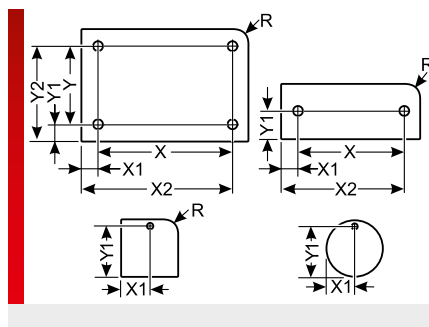
For laser inscribing of ELF/ laser label foil, you must scrub the exhaust air or route it outside (observing statutory provisions) as a precautionary measure to ensure that the strong odors that the machine can produce do not endanger the health of employees. An external extraction system can be connected directly to the MP laser labeling system using an adapter.

## SPECIFICATIONS

-  -40.00 – 248 °F  
short term 518.00 °F
-  Polyacrylate
-  Single-line and multi-line inscription
-  External suction system mandatory

[illegible]

## Aluminum anodized ALU/K



### PRODUCT INFORMATION

The ALU/K labeling material, in mat size 139x139 mm, has been developed especially for the Pulsar laser printer.

- Colored anodized aluminum material
- Available with self-adhesive foil (SK) or with adhesive foil (HF).
- Individual or prefab labels

- Temperature range up to approx. 392 °F
- Thickness: 0.04 in (1.0 mm)
- Inscription technique: Lasers

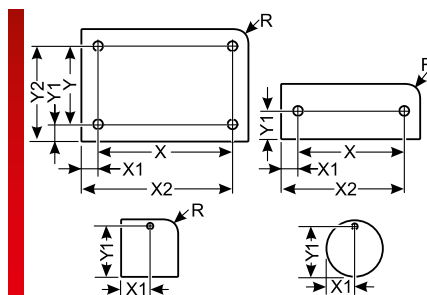
ALU/K is available with self-adhesive foil (SK), self-adhesive foil with foam adhesive (SKS), specialty adhesive foil (SOK) or with adhesive foil (HF).

### SPECIFICATIONS

|                                                                                      |                           |
|--------------------------------------------------------------------------------------|---------------------------|
|   | -40.00 – 212.00 °F        |
|   | Aluminum anodized (ALU/K) |
|   | V0                        |
|  |                           |

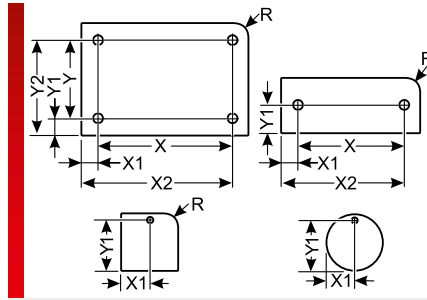
| Type                                    | Order No.  | Color           | Material thickness inch | Printable area inch | No. characters/lines | Hole pattern Number x Ø in | Diameter inch | Software type | Pack qty. |
|-----------------------------------------|------------|-----------------|-------------------------|---------------------|----------------------|----------------------------|---------------|---------------|-----------|
| <b>Rectangular design</b>               |            |                 |                         |                     |                      |                            |               |               |           |
| ALU/K 30x20 HF                          | 8606206003 | Anodized black  | 0.04                    | 1.18 x 0.79         | 16 / 5               |                            |               | I82           | 240       |
| ALU/K 100x50 HF                         | 8606206001 | Anodized black  | 0.04                    | 3.94 x 1.97         | 55 / 14              |                            |               | D08           | 20        |
| ALU/K 130x55 HF                         | 8606206002 | Anodized black  | 0.04                    | 5.12 x 2.17         | 72 / 16              |                            |               | D09           | 20        |
| <b>Rectangular design with one hole</b> |            |                 |                         |                     |                      |                            |               |               |           |
| ALU/K 30x20 SK, 1x3.0 mm                | 8606210001 | Anodized silver | 0.04                    | 1.18 x 0.55         | 16 / 4               | 1x 0.12                    |               | H24           | 240       |
| ALU/K 30x60 HF, 1x22.5 mm               | 8606216002 | Anodized silver | 0.04                    | 1.18 x 0.79         | 16 / 5               | 1x 0.89                    |               | G80           | 80        |
| ALU/K 50x30 HF, 1x22.5 mm               | 8606216001 | Anodized silver | 0.04                    | 1.97 x 1.18         | 27 / 8               | 1x 0.89                    |               | E43           | 80        |
| <b>Rectangular design with 2 holes</b>  |            |                 |                         |                     |                      |                            |               |               |           |
| ALU/K 26x15 SKS, 2x2.3 mm               | 8606222006 | Anodized black  | 0.04                    | 0.66 x 0.59         | 9 / 4                | 2x 0.09                    |               | I71           | 450       |
| ALU/K 37x13 HF, 2x2.5 mm                | 8606226011 | Anodized black  | 0.04                    | 1.06 x 0.51         | 15 / 3               | 2x 0.10                    |               | M43           | 300       |
| ALU/K° 40x15 HF, 2x2.5 mm               | 8606226000 | Anodized silver | 0.04                    | 1.18 x 0.59         | 16 / 4               | 2x 0.10                    |               | I02           | 270       |
| ALU/K 40x20 SKS, 2x2.3 mm               | 8606222005 | Anodized black  | 0.04                    | 1.21 x 0.79         | 17 / 5               | 2x 0.09                    |               | I70           | 180       |
| ALU/K 40x30 HF, 2x2.5 mm                | 8606226010 | Anodized black  | 0.04                    | 1.18 x 1.18         | 16 / 8               | 2x 0.10                    |               | M42           | 120       |
| ALU/K 45x15 HF, 2x2.5 mm                | 8606226026 | Anodized black  | 0.04                    | 1.38 x 0.59         | 19 / 4               | 2x 0.10                    |               | H63           | 270       |
| ALU/K 45x25 HF, 2x4.2 mm                | 8606226003 | Anodized black  | 0.04                    | 1.11 x 0.98         | 15 / 7               | 2x 0.17                    |               | I40           | 150       |
| ALU/K 45x25 HF, 2x4.2 mm                | 8606226002 | Silver / Black  | 0.04                    | 1.11 x 0.98         | 15 / 7               | 2x 0.17                    |               | I40           | 150       |
| ALU/K 50x13 HF, 2x2.5 mm                | 8606226005 | Anodized silver | 0.04                    | 1.57 x 0.51         | 22 / 3               | 2x 0.10                    |               | D71           | 200       |
| ALU/K 60x10 HF, 2x3.5MM                 | 8606226012 | Anodized black  | 0.04                    | 1.99 x 0.39         | 28 / 2               | 2x 0.14                    |               | Z29           | 260       |
| ALU/K 60x15 SKS, 2x2.3 mm               | 8606222004 | Anodized black  | 0.04                    | 2.0 x 0.59          | 28 / 4               | 2x 0.09                    |               | I69           | 180       |
| ALU/K 60x60 HF, 2x2.5 mm                | 8606226009 | Anodized black  | 0.04                    | 1.97 x 2.36         | 27 / 17              | 2x 0.10                    |               | M41           | 40        |
| ALU/K 70x10 SK, 2x2.2 mm                | 8606220001 | Anodized black  | 0.04                    | 2.41 x 0.39         | 34 / 2               | 2x 0.09                    |               | H32           | 130       |
| ALU/K 80x15 SKS, 2x2.3 mm               | 8606222003 | Anodized black  | 0.04                    | 2.79 x 0.59         | 39 / 4               | 2x 0.09                    |               | I68           | 90        |
| ALU/K 90x25 HF, 2x3.0 mm                | 8606226007 | Anodized black  | 0.04                    | 3.07 x 0.98         | 43 / 7               | 2x 0.12                    |               | J22           | 50        |
| ALU/K 90x30 HF, 2x3.5 mm                | 8606226001 | Anodized silver | 0.04                    | 2.99 x 1.18         | 42 / 8               | 2x 0.14                    |               | I16           | 40        |

## Aluminum anodized ALU/K (Continued...)



| Type                                                    | Order No.  | Color           | Material thickness inch | Printable area inch | No. characters/lines | Hole pattern Number x Ø in | Diameter inch | Software type | Pack qty. |
|---------------------------------------------------------|------------|-----------------|-------------------------|---------------------|----------------------|----------------------------|---------------|---------------|-----------|
| ALU/K 100x15 HF, 2x2.50 mm                              | 8606226004 | Anodized red    | 0.04                    | 3.54 x 0.59         | 50 / 4               | 2x 0.10                    |               | D02           | 90        |
| ALU/K 100x30 HF, 2x3.0 mm                               | 8606226008 | Anodized black  | 0.04                    | 3.46 x 1.18         | 48 / 8               | 2x 0.12                    |               | J23           | 40        |
| ALU/K 100x30 HF, 2x3.0 mm                               | 8606226006 | Anodized blue   | 0.04                    | 3.46 x 1.18         | 48 / 8               | 2x 0.12                    |               | J19           | 40        |
| ALU/K 100x70 SKS, 2x2.3 mm                              | 8606222002 | Anodized black  | 0.04                    | 3.57 x 2.76         | 50 / 20              | 2x 0.09                    |               | I67           | 10        |
| ALU/K 139x25 SKS, 2x2.3 mm                              | 8606222001 | Anodized black  | 0.04                    | 5.11 x 0.98         | 72 / 7               | 2x 0.09                    |               | I66           | 50        |
| <b>Rectangular design with 4 holes</b>                  |            |                 |                         |                     |                      |                            |               |               |           |
| ALU/K 100x80 HF, 4x4.0 mm                               | 8606246001 | Anodized black  | 0.04                    | 3.31 x 3.15         | 46 / 23              | 4x 0.16                    |               | J20           | 10        |
| ALU/K 105x52 HF, 4x2.5 mm                               | 8606246000 | Anodized red    | 0.04                    | 3.74 x 2.05         | 52 / 15              | 4x 0.10                    |               | I37           | 20        |
| ALU/K 110x55 HF, 4x3.0 mm                               | 8606246002 | Anodized black  | 0.04                    | 3.86 x 2.17         | 54 / 16              | 4x 0.12                    |               | J21           | 20        |
| ALU/K 120x34 HF, 4x3,5MM                                | 8606246013 | Anodized black  | 0.04                    | 4.31 x 1.34         | 60 / 10              | 4x 0.14                    |               | Z30           | 40        |
| ALU/K 120x120 HF, 4x2.5 mm                              | 8606246003 | Anodized black  | 0.04                    | 4.33 x 4.72         | 61 / 35              | 4x 0.10                    |               | M40           | 10        |
| ALU/K 139,8x60 HF, 4x3,4MM                              | 8606246014 | Anodized black  | 0.04                    | 4.98 x 2.36         | 70 / 17              | 4x 0.13                    |               | Z31           | 20        |
| <b>Rectangular design with corner radius</b>            |            |                 |                         |                     |                      |                            |               |               |           |
| ALU/K° 13x8 R2 SOK                                      | 8606104000 | Anodized black  | 0.04                    | 0.51 x 0.31         | 7 / 2                |                            |               | D36           | 1700      |
| ALU/K 22x22 R2 SK                                       | 8606100005 | Anodized black  | 0.04                    | 0.87 x 0.87         | 12 / 6               |                            |               | H07           | 360       |
| ALU/K 22x22 R2 SK                                       | 8606100004 | Anodized silver | 0.04                    | 0.87 x 0.87         | 12 / 6               |                            |               | E49           | 360       |
| ALU/K 25x10 R2 SK                                       | 8606100000 | Anodized silver | 0.04                    | 0.98 x 0.39         | 13 / 2               |                            |               | I14           | 650       |
| ALU/K° 25x10 R2 SK                                      | 8606100001 | Anodized black  | 0.04                    | 0.98 x 0.39         | 13 / 2               |                            |               | I15           | 650       |
| ALU/K° 25x10 R2 SK                                      | 8606100003 | Silver / Black  | 0.04                    | 0.98 x 0.39         | 13 / 2               |                            |               | I28           | 650       |
| ALU/K 27x18 R2 SK                                       | 8606100010 | Anodized black  | 0.04                    | 1.06 x 0.71         | 15 / 5               |                            |               | L42           | 350       |
| ALU/K 27x18 R2 SK                                       | 8606100011 | Silver / Black  | 0.04                    | 1.06 x 0.71         | 15 / 5               |                            |               | L43           | 350       |
| ALU/K 27x27 R2 SK                                       | 8606100006 | Anodized silver | 0.04                    | 1.06 x 1.06         | 15 / 7               |                            |               | H23           | 250       |
| ALU/K 50x25 R2 SK                                       | 8606100009 | Anodized black  | 0.04                    | 1.97 x 0.98         | 27 / 7               |                            |               | K94           | 100       |
| ALU/K 139.5x139.5 R2 SK                                 | 8606100007 | Anodized black  | 0.04                    | 5.49 x 5.49         | 77 / 41              |                            |               | K87           | 10        |
| ALU/K 139.5x139.5 R2 SK                                 | 8606100008 | Silver / Black  | 0.04                    | 5.49 x 5.49         | 77 / 41              |                            |               | K88           | 10        |
| ALU/K° 130x30 R4 SKS                                    | 8606102001 | Anodized black  | 0.04                    | 5.12 x 1.18         | 72 / 8               |                            |               | I39           | 40        |
| <b>Rectangular design with corner radius and 1 hole</b> |            |                 |                         |                     |                      |                            |               |               |           |
| ALU/K 19x15 R9.5 HF, 1x3.2 mm                           | 8606116006 | Anodized black  | 0.04                    | 0.75 x 0.34         | 10 / 2               | 1x 0.13                    |               | G27           | 630       |
| ALU/K° 20x20 R7 HF, 1x2.5 mm                            | 8606116001 | Anodized black  | 0.04                    | 0.79 x 0.59         | 11 / 4               | 1x 0.10                    |               | I05           | 360       |
| ALU/K° 20x20 R7 HF, 1x2.5 mm                            | 8606116000 | Anodized silver | 0.04                    | 0.79 x 0.59         | 11 / 4               | 1x 0.10                    |               | I00           | 360       |
| ALU/K° 20x20 R7 HF, 1x2.5 mm                            | 8606116002 | Silver / Black  | 0.04                    | 0.79 x 0.59         | 11 / 4               | 1x 0.10                    |               | I20           | 360       |
| ALU/K 20x20 R7 HF, 1x2.6 mm                             | 8606116004 | Anodized silver | 0.04                    | 0.39 x 0.79         | 5 / 5                | 1x 0.10                    |               | D89           | 360       |
| ALU/K 25x20 R2 HF, 1x3.0 mm                             | 8606116007 | Anodized black  | 0.04                    | 0.98 x 0.55         | 13 / 4               | 1x 0.12                    |               | H99           | 300       |
| ALU/K 25x20 R2 HF, 1x3.0 mm                             | 8606116008 | Anodized silver | 0.04                    | 0.98 x 0.57         | 13 / 4               | 1x 0.12                    |               | K47           | 300       |

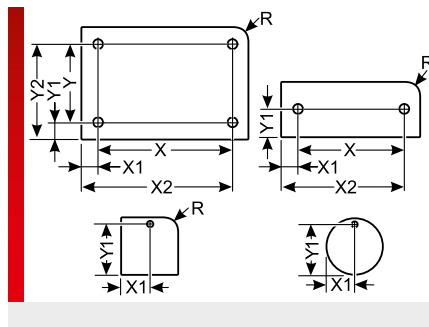
## Aluminum anodized ALU/K (Continued...)



| Type                                                     | Order No.  | Color           | Material thickness inch | Printable area inch | No. characters/lines | Hole pattern Number x Ø in | Dia-meter inch | Software type | Pack qty. |
|----------------------------------------------------------|------------|-----------------|-------------------------|---------------------|----------------------|----------------------------|----------------|---------------|-----------|
| ALU/K 38x30 R1 HF, 1x16.5 mm                             | 8606116005 | Anodized silver | 0.04                    | 1.5 x 1.18          | 21 / 8               | 1x 0.65                    |                | G22           | 120       |
| <b>Rectangular design with corner radius and 2 holes</b> |            |                 |                         |                     |                      |                            |                |               |           |
| ALU/K° 30x8 R2 HF, 2x2.5 mm                              | 8604126031 | Anodized black  | 0.04                    | 0.79 x 0.31         | 11 / 2               | 2x 0.10                    |                | I51           | 680       |
| ALU/K° 30x8 R2 HF, 2x2.5 mm                              | 8606126006 | Silver / Black  | 0.04                    | 0.79 x 0.31         | 11 / 2               | 2x 0.10                    |                | I22           | 680       |
| ALU/K° 30x8 R2 SK, 2x2.5 mm                              | 8604120004 | Anodized black  | 0.04                    | 0.79 x 0.31         | 11 / 2               | 2x 0.10                    |                | I52           | 680       |
| ALU/K° 30x8 R2 SK, 2x2.5 mm                              | 8606120001 | Silver / Black  | 0.04                    | 0.79 x 0.31         | 11 / 2               | 2x 0.10                    |                | I23           | 680       |
| ALU/K 30x8 R2 SOK, 2x2.5 mm                              | 8606124001 | Anodized black  | 0.04                    | 0.79 x 0.31         | 11 / 2               | 2x 0.10                    |                | H31           | 680       |
| ALU/K 30x8 R2 HF, 2x3.0 mm                               | 8606126026 | Anodized black  | 0.04                    | 0.71 x 0.31         | 10 / 2               | 2x 0.12                    |                | J29           | 0.00      |
| ALU/K 30x10 R1 SK, 2x2.5 mm                              | 8606120008 | Anodized black  | 0.04                    | 0.89 x 0.39         | 12 / 2               | 2x 0.10                    |                | K45           | 520       |
| ALU/K 30x10 R1 SK, 2x2.5 mm                              | 8606120009 | Silver / Black  | 0.04                    | 0.89 x 0.39         | 12 / 2               | 2x 0.10                    |                | K46           | 192       |
| ALU/K 30x10 R1 HF, 2x2.5 mm                              | 8606126011 | Anodized silver | 0.04                    | 0.79 x 0.39         | 11 / 2               | 2x 0.10                    |                | I33           | 520       |
| ALU/K 30x15 R2 HF, 2x2.5 mm                              | 8606126025 | Anodized black  | 0.04                    | 0.79 x 0.59         | 11 / 4               | 2x 0.10                    |                | H62           | 360       |
| ALU/K 30x15 R1 SK, 2x2.5 mm                              | 8606120006 | Anodized black  | 0.04                    | 0.89 x 0.59         | 12 / 4               | 2x 0.10                    |                | K43           | 360       |
| ALU/K 30x15 R1 SK, 2x2.5 mm                              | 8606120007 | Silver / Black  | 0.04                    | 0.89 x 0.59         | 12 / 4               | 2x 0.10                    |                | K44           | 360       |
| ALU/K° 30x15 R2 HF, 2x4.0 mm                             | 8606126004 | Anodized black  | 0.04                    | 0.55 x 0.59         | 7 / 4                | 2x 0.16                    |                | I07           | 360       |
| ALU/K° 30x15 R2 HF, 2x4.0 mm                             | 8606126000 | Anodized silver | 0.04                    | 0.55 x 0.59         | 7 / 4                | 2x 0.16                    |                | I01           | 360       |
| ALU/K° 30x15 R2 HF, 2x4.0 mm                             | 8606126005 | Silver / Black  | 0.04                    | 0.55 x 0.79         | 7 / 5                | 2x 0.16                    |                | I21           | 360       |
| ALU/K 34x9 R2 HF, 2x2.5 mm                               | 8606126015 | Anodized silver | 0.04                    | 0.94 x 0.35         | 13 / 2               | 2x 0.10                    |                | D96           | 600       |
| ALU/K 40x10 R2 HF, 2x2.5 mm                              | 8606126014 | Anodized black  | 0.04                    | 1.18 x 0.39         | 16 / 2               | 2x 0.10                    |                | D48           | 390       |
| ALU/K° 45x10 R2 HF, 2x2.5 mm                             | 8606126003 | Anodized black  | 0.04                    | 1.38 x 0.39         | 19 / 2               | 2x 0.10                    |                | I06           | 390       |
| ALU/K° 45x10 R2 HF, 2x2.5 mm                             | 8606126002 | Anodized silver | 0.04                    | 1.38 x 0.39         | 19 / 2               | 2x 0.10                    |                | I04           | 390       |
| ALU/K° 45x10 R2 HF, 2x2.5 mm                             | 8606126007 | Silver / Black  | 0.04                    | 1.38 x 0.39         | 19 / 2               | 2x 0.10                    |                | I24           | 390       |
| ALU/K 45x14 R1 HF, 2x2.5 mm                              | 8606126018 | Anodized silver | 0.04                    | 1.38 x 0.55         | 19 / 4               | 2x 0.10                    |                | E44           | 270       |
| ALU/K 45x18 R2 HF, 2x3.5 mm                              | 8606126012 | Anodized silver | 0.04                    | 1.22 x 0.71         | 17 / 5               | 2x 0.14                    |                | B80           | 210       |
| ALU/K 45x26 R1 HF, 2x2.5 mm                              | 8606126022 | Anodized silver | 0.04                    | 1.38 x 1.02         | 19 / 7               | 2x 0.10                    |                | E48           | 150       |
| ALU/K 50x15 R2 SK, 2x3.0 mm                              | 8606120004 | Anodized black  | 0.04                    | 1.5 x 0.59          | 21 / 4               | 2x 0.12                    |                | I88           | 180       |
| ALU/K 50x15 R2 SK, 2x3.0 mm                              | 8606120005 | Silver / Black  | 0.04                    | 1.5 x 0.59          | 21 / 4               | 2x 0.12                    |                | I89           | 180       |
| ALU/K° 50x15 R2 HF, 2x3.5 mm                             | 8606126001 | Anodized silver | 0.04                    | 1.42 x 0.59         | 20 / 4               | 2x 0.14                    |                | I03           | 180       |
| ALU/K 52x18 R2 HF, 2x2.5 mm                              | 8606126013 | Anodized black  | 0.04                    | 1.65 x 0.71         | 23 / 5               | 2x 0.10                    |                | D47           | 140       |
| ALU/K 60x30 R2 HF, 2x3.0 mm                              | 8606126024 | Anodized silver | 0.04                    | 1.89 x 1.18         | 26 / 8               | 2x 0.12                    |                | H25           | 80        |
| ALU/K 70x27 R2 SK, 2x3.0 mm                              | 8606120003 | Anodized black  | 0.04                    | 2.28 x 1.06         | 32 / 7               | 2x 0.12                    |                | H06           | 50        |
| ALU/K 74x18 R1 HF, 2x2.5 mm                              | 8606126019 | Anodized silver | 0.04                    | 2.52 x 0.71         | 35 / 5               | 2x 0.10                    |                | E45           | 70        |
| ALU/K 74x26 R1 HF, 2x2.5 mm                              | 8606126020 | Anodized silver | 0.04                    | 2.52 x 1.02         | 35 / 7               | 2x 0.10                    |                | E46           | 50        |
| ALU/K 74x74 R1 HF, 2x2.5 mm                              | 8606126021 | Anodized silver | 0.04                    | 2.52 x 2.91         | 35 / 21              | 2x 0.10                    |                | E47           | 10        |
| ALU/K 75x10 R2 HF, 2x2.5 mm                              | 8606126016 | Anodized black  | 0.04                    | 2.56 x 0.39         | 36 / 2               | 2x 0.10                    |                | E40           | 130       |

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## Monomatt MM/K



### PRODUCT INFORMATION

The Monomatt labeling material, in mat size 139x139 mm, has been developed especially for the pulsar laser printer.

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

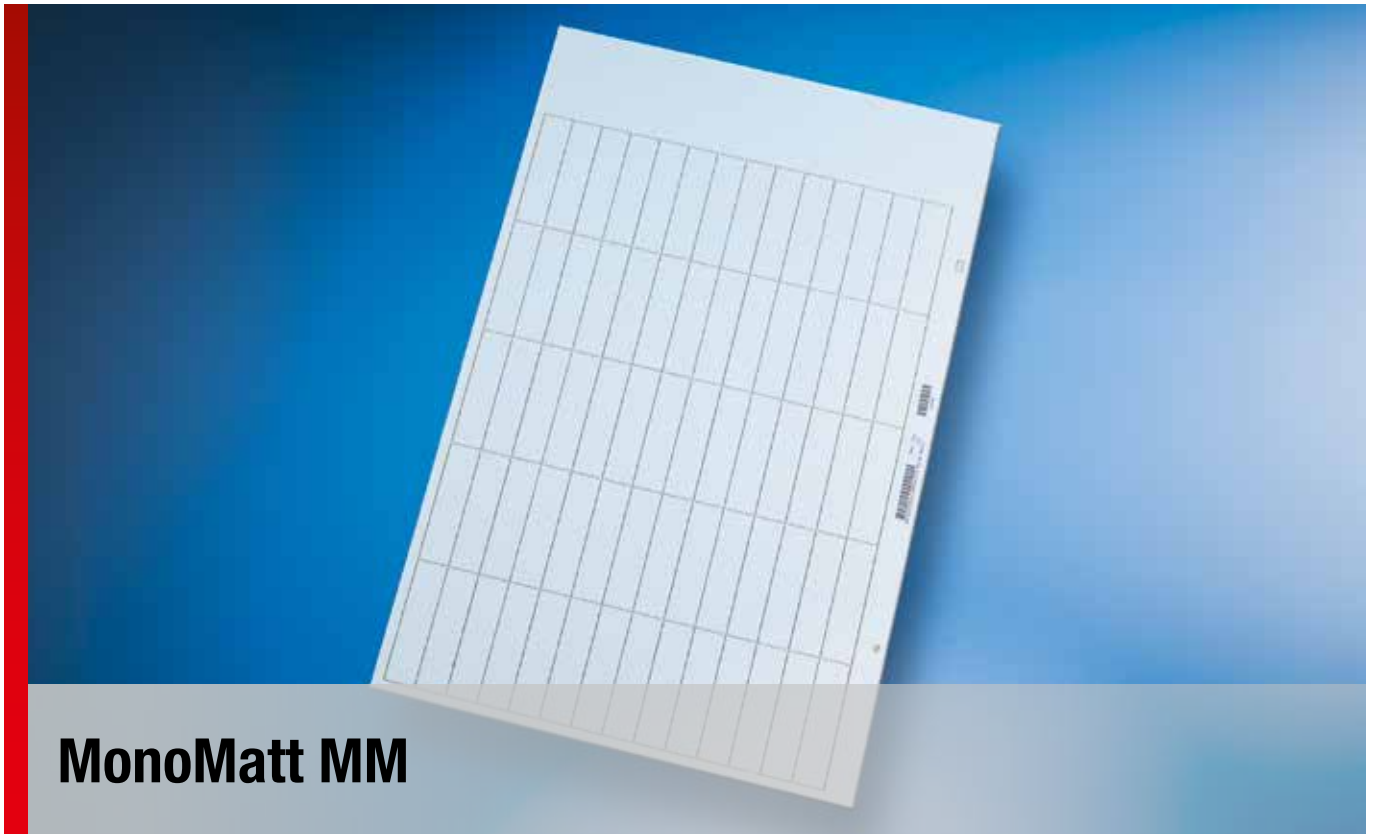
among the best materials available for label plates for many years.

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

### SPECIFICATIONS

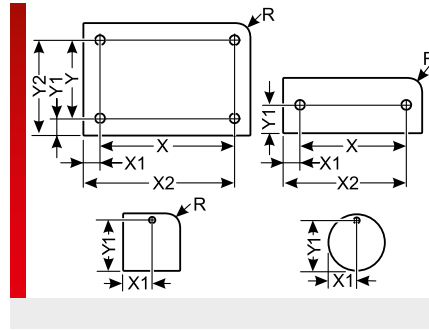
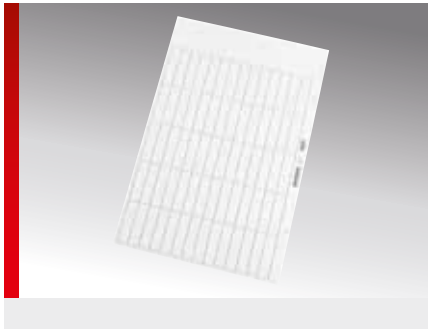
|                                                                                       |                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    | -40.00 – 266.00 °F                                                                    |                                                                                       |
|    | Polycarbonate (PC)                                                                    |                                                                                       |
|    | V0                                                                                    |                                                                                       |
|    | Single-line and multi-line inscription                                                |                                                                                       |
|  |  |  |

| Type                                                                              | Order No.  | Color | Material thickness<br>inch | Printable area<br>inch | No. characters/<br>lines | Hole pattern<br>Number x<br>Ø in | by<br>meter<br>inch | Software<br>type | Pack<br>qty. |
|-----------------------------------------------------------------------------------|------------|-------|----------------------------|------------------------|--------------------------|----------------------------------|---------------------|------------------|--------------|
| <b>Rectangular design, self-adhesive (for smooth surfaces)</b>                    |            |       |                            |                        |                          |                                  |                     |                  |              |
| MM/K 10.5x9.5 SK                                                                  | 8608200006 | White | 0.04                       | 0.41 x 0.37            | 5 / 2                    |                                  |                     | K89              | 156.00       |
| MM/K 30x12 SK                                                                     | 8608200005 | White | 0.04                       | 1.18 x 0.47            | 16 / 3                   |                                  |                     | G29              | 44.00        |
| MM/K 60x20 SK                                                                     | 8608200001 | White | 0.04                       | 2.36 x 0.79            | 33 / 5                   |                                  |                     | D27              | 12.00        |
| MM/K 70x27 SK                                                                     | 8608200002 | White | 0.04                       | 2.76 x 1.06            | 38 / 7                   |                                  |                     | D26              | 5            |
| MM/K 82x22 SK                                                                     | 8608200003 | White | 0.04                       | 3.23 x 0.87            | 45 / 6                   |                                  |                     | D25              | 6.00         |
| MM/K 95x45 SK                                                                     | 8608200004 | White | 0.04                       | 3.74 x 1.77            | 52 / 13                  |                                  |                     | D24              | 3.00         |
| <b>Rectangular design with adhesive foil and 2 holes</b>                          |            |       |                            |                        |                          |                                  |                     |                  |              |
| MM/K 30x12 HF, 2x3.1MM                                                            | 8608226001 | White | 0.04                       | 0.73 x 0.47            | 10 / 3                   | 2x 0.12                          |                     | G28              | 44.00        |
| MM/K 34x12 HF, 2x3.5MM                                                            | 8608226002 | White | 0.04                       | 0.79 x 0.47            | 11 / 3                   | 2x 0.14                          |                     | I99              | 20.00        |
| <b>Rectangular design with adhesive foil and 4 holes</b>                          |            |       |                            |                        |                          |                                  |                     |                  |              |
| MM/K 34x38 HF, 4x4,0MM                                                            | 8608246001 | White | 0.04                       | 1.34 x 0.87            | 18 / 6                   | 4x 0.16                          |                     | B01              | 6.00         |
| <b>Rectangular design with corner radius, self-adhesive (for smooth surfaces)</b> |            |       |                            |                        |                          |                                  |                     |                  |              |
| MM/K 18x9 R2 SK                                                                   | 8608100001 | White | 0.04                       | 0.71 x 0.35            | 10 / 2                   |                                  |                     | D33              | 72.00        |
| MM/K 28x9 R2 SK                                                                   | 8608100006 | White | 0.04                       | 1.1 x 0.35             | 15 / 2                   |                                  |                     | D28              | 48           |
| <b>Round, with adhesive foil, 1 drilled hole</b>                                  |            |       |                            |                        |                          |                                  |                     |                  |              |
| MM/K D=30 HF, 1x5,0MM                                                             | 8608316001 | White | 0.04                       |                        |                          | 1x 0.20                          | 1.18                | D49              | 16.00        |



## MonoMatt MM

## MonoMatt (MM)



### PRODUCT INFORMATION

Single-layer polycarbonate with the excellent properties of our label plates. This is a white solid-colored material that also meets the specifications of the standard material for the terminal strip markers. The high-gloss surface is protected by a yellowish protective foil when shipped.

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

Monomatt (MM) with the mat size 300x200 mm is designed for labelling with the Murrplastik p<sup>3</sup>b and pictor<sup>2</sup> inkjet systems, but can also be used with the plotter.

### SPECIFICATIONS

|                                                                                     |                    |
|-------------------------------------------------------------------------------------|--------------------|
|  | -40.00 – 266.00 °F |
|  | Polycarbonate (PC) |
|  | V0                 |



| Type                                     | Order No.  | Color | Material thickness inch | Printable area inch | No. characters/lines | Hole pattern Number x Ø in | by meter inch | Software type | Pack qty. |
|------------------------------------------|------------|-------|-------------------------|---------------------|----------------------|----------------------------|---------------|---------------|-----------|
| <b>Rectangular design (single label)</b> |            |       |                         |                     |                      |                            |               |               |           |
| MM 300x200 HF                            | 8607206003 | White | 0.04                    | 11.81 x 7.87        | 166 / 58             |                            |               | ZM1           | 1         |
| MM 300x200 SK                            | 8607200004 | White | 0.04                    | 11.81 x 7.87        | 166 / 58             |                            |               | ZM1           | 1         |
| <b>Rectangular design</b>                |            |       |                         |                     |                      |                            |               |               |           |
| MM 6x15 SK                               | 8607200015 | White | 0.04                    | 0.24 x 0.59         | 3 / 4                |                            |               | I58           | 540       |
| MM 8.5x30 SK                             | 8607200012 | White | 0.04                    | 0.33 x 1.18         | 4 / 8                |                            |               | H57           | 192       |
| MM 14x45 SK                              | 8607200016 | White | 0.04                    | 0.55 x 1.77         | 7 / 13               |                            |               | I90           | 80        |
| MM 24x84.5 SK                            | 8607200018 | White | 0.04                    | 0.94 x 3.33         | 13 / 24              |                            |               | I92           | 24        |
| MM 25x5 SK                               | 8607200009 | White | 0.04                    | 0.98 x 0.20         | 13 / 1               |                            |               | D52           | 374       |
| MM 25x8 SK                               | 8607200008 | White | 0.04                    | 0.98 x 0.31         | 13 / 2               |                            |               | D51           | 242       |
| MM 27x15 HF                              | 8607206004 | White | 0.04                    | 1.06 x 0.59         | 15 / 4               |                            |               | D07           | 120       |
| MM 27x18 SK                              | 8607200021 | White | 0.04                    | 1.06 x 0.71         | 15 / 5               |                            |               | L69           | 100       |
| MM 27x18 SKS                             | 8607202001 | White | 0.04                    | 1.06 x 0.71         | 15 / 5               |                            |               | L48           | 100       |
| MM 30x10 SK                              | 8607200007 | White | 0.04                    | 1.18 x 2.36         | 16 / 17              |                            |               | D50           | 153       |
| MM 30x15 SK                              | 8607200020 | White | 0.04                    | 1.18 x 0.59         | 16 / 4               |                            |               | J68           | 108       |
| MM 30x60 SK                              | 8607200010 | White | 0.04                    | 1.18 x 2.36         | 16 / 17              |                            |               | D60           | 2         |
| MM 33x7.5 SK                             | 8607200005 | White | 0.04                    | 1.30 x 0.30         | 18 / 2               |                            |               | Z08           | 184       |
| MM 40x7 HF                               | 8607206005 | White | 0.04                    | 1.57 x 0.28         | 22 / 2               |                            |               | D37           | 175       |
| MM 40x80 SK                              | 8607200011 | White | 0.04                    | 1.57 x 3.15         | 22 / 23              |                            |               | D61           | 14        |
| MM 50x12.5 SK                            | 8607200014 | White | 0.04                    | 1.97 x 0.49         | 27 / 3               |                            |               | H97           | 70        |
| MM 95x45 SK                              | 8607200017 | White | 0.04                    | 3.74 x 1.77         | 52 / 13              |                            |               | I91           | 12        |
| MM 95x145 SK                             | 8607200006 | White | 0.04                    | 3.74 x 5.71         | 52 / 42              |                            |               | D35           | 3         |
| MM 118x92 SK                             | 8607200019 | White | 0.04                    | 4.65 x 3.62         | 65 / 27              |                            |               | J09           | 4         |
| MM 120x120 HF                            | 8607206006 | White | 0.04                    | 4.72 x 4.72         | 66 / 35              |                            |               | M35           | 2         |

[illegible]





## Laser systems







## Accessories and spare parts for mp-LM



mp-LM F



Separator plates set



Receiving container (catch tank)

### PRODUCT INFORMATION

#### mp-LM F Extraction and filter unit

Robust suction unit for the mp-LM series to extract harmful dust, gases and vapours that accrue during the laser labelling process.

#### mp-LM separator plates set

Contains 5 separator plates, which are necessary for separating materials in mixed magazine population.

#### mp-LM receiving container (catch tank)

Receiving container for labelling mats, especially designed for the labelling process of the mp-LM.

| Type                                                                          | Order No. | Pack qty. |
|-------------------------------------------------------------------------------|-----------|-----------|
| <b>Collecting device for labeled materials</b>                                |           |           |
| mp-LM receiving container (catch tank)                                        | 86624116  | 1         |
| <b>Separator plates for magazine loading</b>                                  |           |           |
| mp-LM separator plates set                                                    | 86624117  | 5         |
| <b>Premium carrier plate with adhesive foil to hold any labeling material</b> |           |           |
| mp-LM Trägerplatte Premium                                                    | 86624135  | 1         |
| mp-LM Trägerplatte Premium Set + Box                                          | 86624136  | 1         |
| <b>SK carrier plates to hold labeling material</b>                            |           |           |
| mp-LM SK carrier plate                                                        | 86624127  | 5         |
| mp-LM carrier plate set SK + box                                              | 86624128  | 1         |
| <b>Spare glue dots for SK carrier plate</b>                                   |           |           |
| mp-LM SK glue dots                                                            | 86624191  | 48        |
| <b>Spare glue dots for HF ALU+V4A carrier plate</b>                           |           |           |
| mp-LM glue dots HF ALU+V4A                                                    | 86624190  | 48        |
| <b>HF ALU-V4A carrier plate to hold labeling materials</b>                    |           |           |
| mp-LM Trägerplatte HF ALU-V4A                                                 | 86624125  | 5         |
| mp-LM Trägerplatte Set HF Alu-V4A + Box                                       | 86624126  | 1         |
| <b>Adapter plates for accepting single line of 3-line labeling materials</b>  |           |           |
| mp-LM single tree adapter 3                                                   | 86624131  | 1         |

1226 Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com



A black and white photograph showing a person's face from the nose up. The person has dark hair and is looking slightly to the right. A dark, textured object, possibly a piece of clothing or a prop, is positioned in front of the face, partially obscuring the lower half. The background is a plain, light color.

1227

## pulsar A6



### PRODUCT INFORMATION

#### More productivity through automation

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

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

The device includes a set of 2 base plates and magazines. This set is customized, because of the large range of materials available. Depending on the actual variances, an additional set may have to be added.

#### Advantages

- Can be adapted retrospectively
- Magazine of up to 100 mats

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

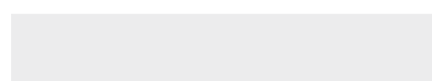
#### Labeling a variety of Murrplastik materials

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

#### Technical data: pulsar A6

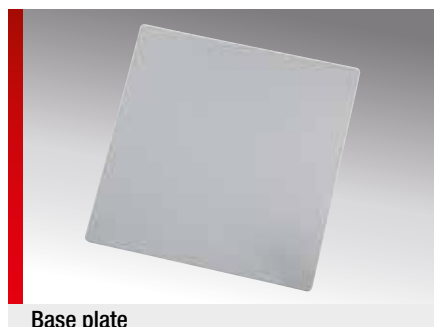
- Laser source: 6 watt solid state laser
- Wavelength: 1064 nm
- Modulation: Frequency 15 KHz - 200 KHz
- Cooling: Air
- Pneumatic: 4 bar, > 200 l/min (DIN ISO 8573-1: 2010)
- Input voltage: 230 V / 50-60 Hz
- Power: 1 kW (with pulsar M6)
- Dimensions: 24.80 x 41.34 x 36.22 in (630 x 1050 x 920 mm) (H x W x D)
- Weight: 110 kg (with pulsar M6)
- Interface: USB
- Safety: Laser class 1
- Printable area 5.51 x 5.51 in (140 x 140 mm)

### SPECIFICATIONS



| Type                            | Order No. | Pack qty. |
|---------------------------------|-----------|-----------|
| pulsar A6 laser labeling system | 86624013  | 1         |
|                                 |           |           |
|                                 |           |           |
|                                 |           |           |
|                                 |           |           |
|                                 |           |           |
|                                 |           |           |
|                                 |           |           |
|                                 |           |           |
|                                 |           |           |

## Accessories for pulsar M6 / pulsar A6



## PRODUCT INFORMATION

**pulsar GPU 140x140 base plate**

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

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

**pulsar conduit pipe nozzle kit**

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

\* external extraction system upon request

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

**pulsar conduit pipe nozzle 90° Kit**

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

\* external extraction system upon request

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

**pulsar M6 voltage converter 110 - 135 V**

Voltage converter for 110 – 135 V markets.

## SPECIFICATIONS

[illegible]



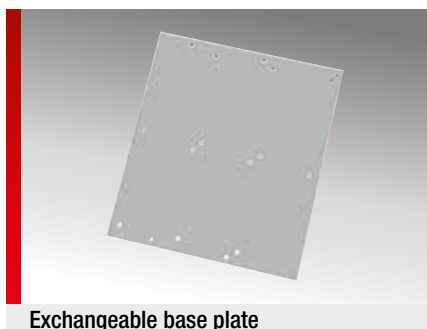






Label plate

### Label plate



### Exchangeable base plate

### Label plate

### Exchangeable base plate

## Base plates

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

## SPECIFICATIONS

[illegible]



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## Plotter systems

Rugged construction in stylish aluminum;  
Labeling area 10.75 x 12.01 inch  
(273 x 305 mm) for six aluminum base  
plates GPx or a base plate GPU A4;  
Easy to change fixtures to suit a variety of  
marking elements;  
Universal power supply of 100-240 V AC /  
50-60 Hz;  
Neat labeling right from the very first marking  
element;  
PC interface: USB port;  
Control language: HPGL;  
Engraving option mp-EM Opt. optionally  
adaptable.

- Plotter mp-PM Basic incl. base plate
- USB data cable
- Power supply 100-240 V Euro adapter attached
- Mains adapter USA and UK
- Operating instructions

- Plotter mp-PM Basic incl. base plate
- 3 base plates type GP 3
- 3 base plates type GP 4
- Ink pen disposable MP 2.0 – 0.35 mm
- ACS Gold Studio software
- USB data cable
- Power supply 100-240 V Euro adapter attached
- Mains adapter USA and UK
- Operating instructions

11/11/2019

[illegible]



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**Base plate**

## Base plates

## Base plates

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

| Type                                              | Order No. | Pack qty. |
|---------------------------------------------------|-----------|-----------|
| <b>Mounting adapter for base plate</b>            |           |           |
| mp-PM/MVPS basic base plate                       | 86621031  | 1         |
| mp-PM/MVPS G3 base plate                          | 86622011  | 1         |
|                                                   |           |           |
| <b>Ink pen holder</b>                             |           |           |
| mp-PM pin unit                                    | 86691081  | 1         |
|                                                   |           |           |
| <b>Internal electronic component<sup>1)</sup></b> |           |           |
| mp-PM input board <sup>1)</sup>                   | 86691084  | 1         |
| mp-PM basic control board <sup>1)</sup>           | 86691083  | 1         |
| mp-PM A3 control board <sup>1)</sup>              | 86691082  | 1         |

<sup>1)</sup> Requires opening the device and must not be done by anyone other than Murrplastik Service technician during the warranty period.

## Special writing pens for plotter systems



Refillable pen



Disposable pen

### PRODUCT INFORMATION

#### Disposable pen (full)

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

#### Refillable pen (empty)

Available in different line thicknesses. The pen can be filled with replaceable cartridges (1 ml) or with ink from a bottle (30 ml).

#### Refillable pen for fabric labels (empty)

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

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

### SPECIFICATIONS



| Type                                                  | Order No. | Pack qty. |
|-------------------------------------------------------|-----------|-----------|
| <b>MP2.0 Disposable pens (full)</b>                   |           |           |
| MP2.0 0.18 mm disposable ink pen                      | 86621464  | 1         |
| MP2.0 0.25 mm disposable ink pen                      | 86621466  | 1         |
| MP2.0 0.35 mm disposable ink pen                      | 86621468  | 1         |
| MP2.0 0.5 mm disposable ink pen                       | 86621472  | 1         |
| MP2.0 0.7 mm disposable ink pen                       | 86621474  | 1         |
| MP2.0 1.0 mm disposable ink pen                       | 86621476  | 1         |
| <b>IPC Disposable pens (full)</b>                     |           |           |
| MP-IPC 0.18MM disposable ink pen                      | 86621490  | 1         |
| MP-IPC 0.25 mm disposable ink pen                     | 86621492  | 1         |
| MP-IPC 0.35 mm disposable ink pen                     | 86621494  | 1         |
| <b>MP2.0 Refillable pen (empty)</b>                   |           |           |
| MP2.0 0.18 mm ink pen                                 | 86621480  | 1         |
| MP2.0 0.25 mm ink pen                                 | 86621481  | 1         |
| MP2.0 0.35 mm ink pen                                 | 86621482  | 1         |
| MP2.0 0.5 mm ink pen                                  | 86621483  | 1         |
| MP2.0 0.7 mm ink pen                                  | 86621484  | 1         |
| MP2.0 1.0 mm ink pen                                  | 86621485  | 1         |
| <b>Refillable pen for MP2.0 fabric labels (empty)</b> |           |           |
| MP2.0 0.35 mm ink pen labels                          | 86621471  | 1         |

A photograph of a bottle of GFP-SL-1 Reagent. The bottle is dark blue with a white cap and a label that reads "GFP-SL-1 Reagent", "Gibco", "Cat. # 16107-019", and "03-2016". To the right of the bottle is a small, clear vial containing a dark blue liquid.

[illegible][illegible]

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## MGS 50 / MGS 60



MGS 50



MGS 60

### PRODUCT INFORMATION

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

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

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

rotating the depth control no longer need to be counted. Settings are in 0.025 mm increments.

#### Base plates

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

### SPECIFICATIONS



| Type                                          | Order No. | Pack qty. |
|-----------------------------------------------|-----------|-----------|
| MGS 50 A4 engraving system                    | 86622026  | 1         |
| MGS 60 A3 engraving system                    | 86622028  | 1         |
| <b>Accessories</b>                            |           |           |
| Engraving option suction unit G3 / VC         | 86622060  | 1         |
| Engraving option / MGS vacuum cleaner bag set | 86691072  | 1         |
| MGS (40-TO/50/60) vacuum plate <sup>1)</sup>  | 86622064  | 1         |
| MGS (40-TO/50/60) vacuum plate <sup>1)</sup>  | 86622066  | 1         |
| MGS (40-TO/50/60) suction adapter set         | 86622062  | 1         |
| mp-PM Basic / MGS 50 Alu-Case                 | 86622078  |           |
| <b>Spare parts</b>                            |           |           |
| MGS 50 / MGS 60 depth adjuster                | 86691037  | 1         |
| MGS 50 / MGS 60 engraving spindle             | 86691035  | 1         |

<sup>1)</sup> to be used only with vacuum plate







**Spindle SF 170 E**



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.

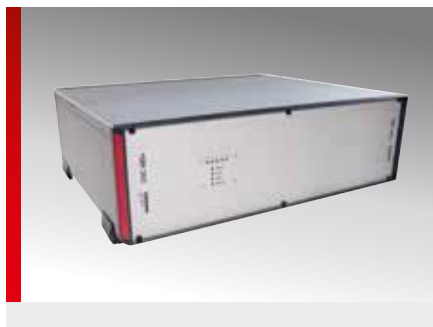
- High speeds, seamless regulation of speed range
- High speed stability, even under stress
- Nearly noiseless
- High output utilization combined with low weight
- precision bearing
- Control of spindle through software

- Nominal output 170 W
- Max. 60,000 rpm
- Clamping range 1 – 4 mm
- Manual tool change with quick clamping
- Software controlled frequency converter

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

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

[illegible]



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.

- High-speed processing
- Continuous trajectory
- Smoother, more powerful and more accurate by using 1/64 micro stepping
- Robust, shielded metal case
- LED status display
- USB ready



## CAM vacuum table



Vacuum table

### PRODUCT INFORMATION

Clamping as if by magic. We can supply a vacuum grid table matching the engraving machine model for the specific purpose of clamping our Duomatt, Alumatt and aluminum mats or for level work pieces. If there is no compressed air supply at the site of installation it will be necessary to order an electric vacuum pump instead of the standard chip vacuum pump.

#### CAM 100 vacuum table

Technical data:

- Size approx. 13.98 x 11.42 in (355 x 290 mm)
- Raster gap 0.12 in (3 mm)

Scope of delivery:

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

#### CAM 200 vacuum table

Technical data:

- Size approx. 21.26 x 19.09 in (540 x 485 mm)
- Raster gap 0.12 in (3 mm)

Scope of delivery:

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

#### Optional with a new order in conjunction with CAM 100

Electric vacuum pump instead of chip vacuum pump (surcharge)

#### Spare parts

Sealing cord  
Electric vacuum pump  
Vacuum grid plate  
Perforated vacuum plate

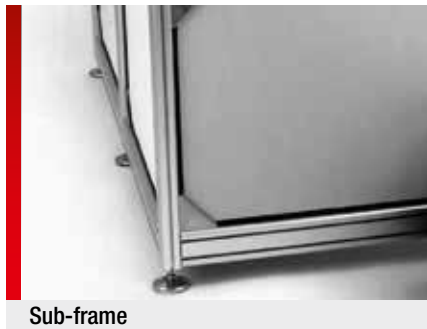
### SPECIFICATIONS



| Type                                                         | Order No. | Pack qty. |
|--------------------------------------------------------------|-----------|-----------|
| <b>Vacuum table</b>                                          |           |           |
| CAM 100 ALU vacuum grid plate                                | 86701614  | 1         |
| CAM 100 ALU perforated vacuum plate                          | 86701616  | 1         |
| CAM 100 vacuum table pitch pattern                           | 86701610  | 1         |
| CAM 200 vacuum table pitch pattern                           | 86701612  | 1         |
| <b>Optional, in case of CAM reorder</b>                      |           |           |
| CAM series elect. vacuum pump                                | 86701618  | 1         |
| Electric vacuum pump instead of chip vacuum pump (surcharge) | 86901614  | 1         |
| <b>Accessories</b>                                           |           |           |
| Replacement sealing cord                                     | 86721018  | 9.84      |
|                                                              |           |           |
|                                                              |           |           |
|                                                              |           |           |
|                                                              |           |           |
|                                                              |           |           |
|                                                              |           |           |



Polystyrene base

[illegible]

## A small, clear plastic bottle with a white cap, filled with a bright blue liquid. The label is white with black and red text. It features the word "Alu-oxid" prominently. There are also some smaller, less legible markings and a red square logo at the bottom of the label. The bottle is set against a plain white background.

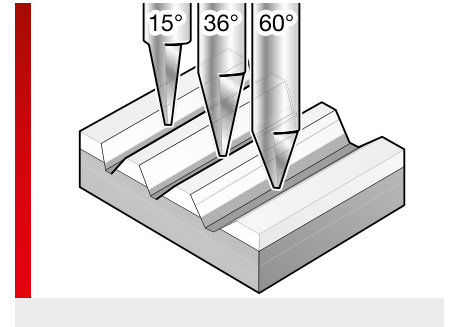
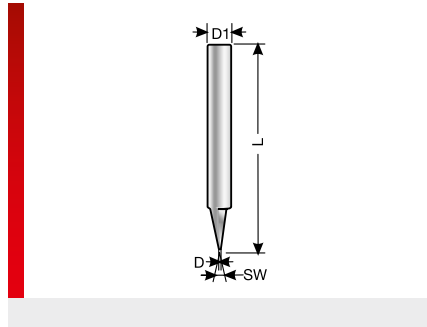
Alu-oxide



Lubricant



## Graver



### PRODUCT INFORMATION

Gravers are conical tools (halved solid metal round bar, ground smooth) with a cutting edge. In principle, the smaller the angle at the point, the more constant is the engraving width, even if the material to be engraved is not flat. We would recommend our special 15° gravers when working with spindles without height scanning. The overall diameter gives the minimum engraving width. The deeper it presses into the material, the wider the engraving width. Ratio of plunge depth:

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

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

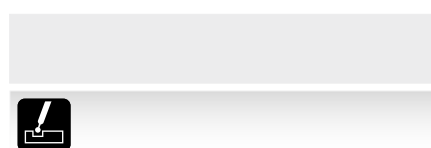
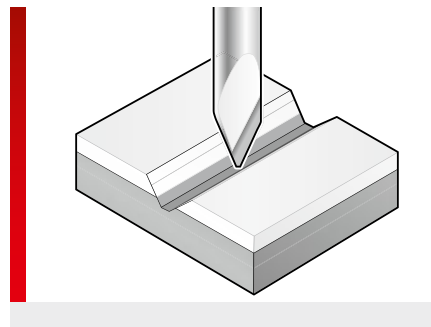
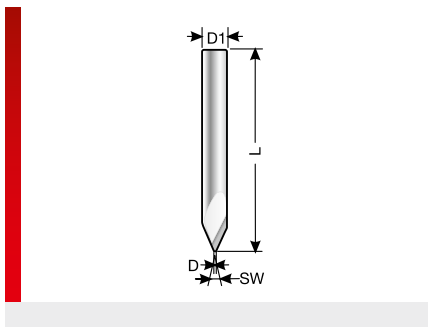
#### Engraving systems

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

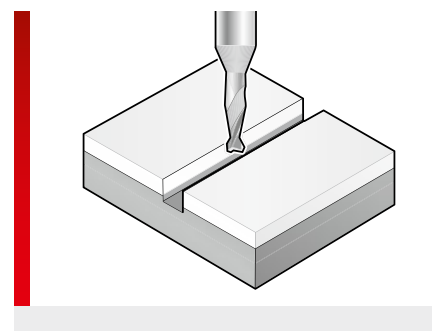
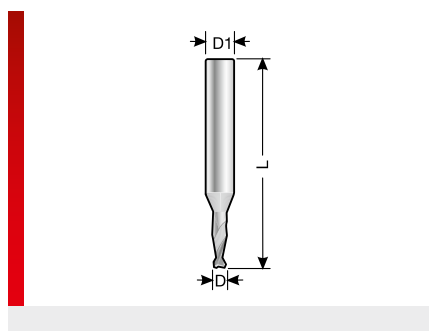
### SPECIFICATIONS



| Type                        | Order No. | Color stop ring | D<br>Ø in | D1<br>Ø in | L<br>inch | Section<br>Angle ° | Pack<br>qty. |
|-----------------------------|-----------|-----------------|-----------|------------|-----------|--------------------|--------------|
| <b>Nose angle 15 degree</b> |           |                 |           |            |           |                    |              |
| Graver 15° d = 0,2 mm       | 86721424  | White           | 0.01      | 0.12       | 1.57      | 15                 | 1            |
| Graver 15° d = 0,3 mm       | 86721426  | White           | 0.01      | 0.12       | 1.57      | 15                 | 1            |
| Graver 15° d = 0,4 mm       | 86721428  | White           | 0.02      | 0.12       | 1.57      | 15                 | 1            |
| Graver 15° d = 0,5 mm       | 86721430  | White           | 0.02      | 0.12       | 1.57      | 15                 | 1            |
| Graver 15° d = 0,7 mm       | 86721432  | White           | 0.03      | 0.12       | 1.57      | 15                 | 1            |
| <b>Nose angle 36 degree</b> |           |                 |           |            |           |                    |              |
| Graver 36° d = 0,2 mm       | 86721435  | Yellow          | 0.01      | 0.12       | 1.57      | 36                 | 1            |
| Graver 36° d = 0,3 mm       | 86721436  | Yellow          | 0.01      | 0.12       | 1.57      | 36                 | 1            |
| Graver 36° d = 0,4 mm       | 86721437  | Yellow          | 0.02      | 0.12       | 1.57      | 36                 | 1            |
| Graver 36° d = 0,5 mm       | 86721438  | Yellow          | 0.02      | 0.12       | 1.57      | 36                 | 1            |
| Graver 36° d = 0,7 mm       | 86721439  | Yellow          | 0.03      | 0.12       | 1.57      | 36                 | 1            |
| Graver 36° d = 1,0 mm       | 86721440  | Yellow          | 0.04      | 0.12       | 1.57      | 36                 | 1            |
| <b>Nose angle 60 degree</b> |           |                 |           |            |           |                    |              |
| Graver 60° d = 0,2 mm       | 86721444  | Orange          | 0.01      | 0.12       | 1.57      | 60                 | 1            |
| Graver 60° d = 0,3 mm       | 86721446  | Orange          | 0.01      | 0.12       | 1.57      | 60                 | 1            |
| Graver 60° d = 0,4 mm       | 86721448  | Orange          | 0.02      | 0.12       | 1.57      | 60                 | 1            |
| Graver 60° d = 0,5 mm       | 86721450  | Orange          | 0.02      | 0.12       | 1.57      | 60                 | 1            |
| Graver 60° d = 0,7 mm       | 86721452  | Orange          | 0.03      | 0.12       | 1.57      | 60                 | 1            |
| Graver 60° d = 1,0 mm       | 86721454  | Orange          | 0.04      | 0.12       | 1.57      | 60                 | 1            |



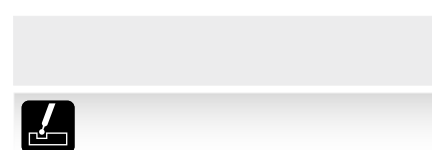
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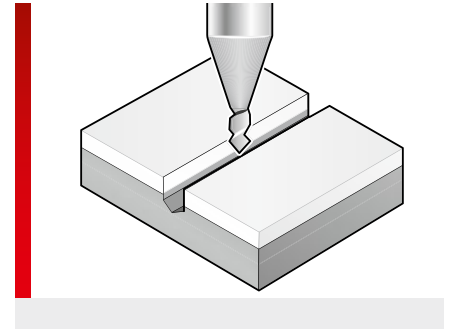
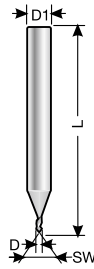


The rub-out cutter has a lower breaking risk than the double-fluted cutter with fishtail cut, because of the shorter cutting edge; it is therefore better suited for diameters up to 1 mm.

- ## Engraving systems

## SPECIFICATIONS

[illegible]



Its long service-life and durability, even at high feed velocities, makes it an ideal engraving tool for ALU, ALM, stainless steel and titanium alloys.

- The 30 mm (1.18 in) insulation engraver can be used in conjunction with the CAM engraving system.
- The 40 mm (1.57 in) insulation engraver is suitable for Murrplastik engraving systems.

[illegible]

## Tool sets



## PRODUCT INFORMATION

We are pleased to offer you specially-designed sets containing different engraving tools. These sets provide a cost-effective means of selecting the appropriate graver or cutter for your specific application.

**10 piece tool set (only for CAM engraving systems)**

Consisting of:

- one each of graver 15° 0.2 mm; 0.4 mm; 0.7 mm
- 1x graver 36° 0.4 mm
- 1x graver 60° 0.2 mm

- 1 x Rub-out cutter (0.5 mm / 1.0 mm)
- 2x Insulation engravers
- 1 x Double-fluted cutter 3.0 mm

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

Consisting of:

- one each of graver 15° 0.2 mm; 0.3 mm; 0.4 mm; 0.5 mm; 0.7 mm
- one each of graver 36° 0.3 mm; 0.5 mm; 1.0 mm
- one each of graver 60° 0.3 mm; 0.5 mm

## SPECIFICATIONS

[illegible]







The image shows an EOS I 3000 printer, a compact desktop device with a light-colored front panel and a transparent top cover. A printed document is emerging from the front output tray. The printer is positioned on a light-colored surface against a dark background.

- Compact label printer
- Simple and clear touch screen operation
- Replacing consumable parts (print head, print plates) without tools
- Automatic centering of the label roll
- Easy cleaning without additional tools

- mp-TM EOS1 label printer
- Power cable
- USB data cable
- Operating instructions
- CD (driver with instructions)

- Cutters
- External unwinder

- 300 dpi print resolution
- Max. label width 4.16 in (105.6 mm)
- Max. outer Ø material 6.10 in (155 mm)



|                                                                                     |                                                                               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|  | 300 dpi print resolution<br>Color touch display                               |
|  | Max. label width 4.16 in (105.7 mm)<br>Max. outer Ø material 8.07 in (205 mm) |
|  |                                                                               |

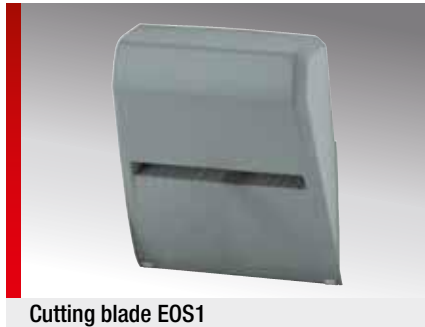


- 300 dpi print resolution
  - Max. label width 4.16 in (105.6 mm)
  - Max. outer Ø material 11.81 in (300 mm)

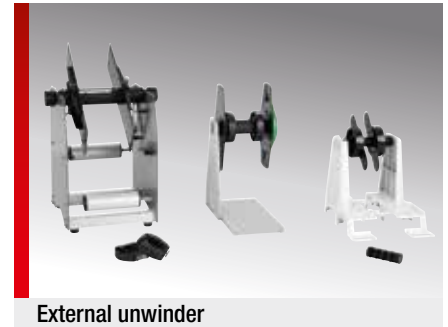
## Accessories for MP-TM Systems



Squix 4/M / A4+M / XD4T cutting blade



Cutting blade EOS1



External unwinder

### PRODUCT INFORMATION

#### Cutters

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

#### Perforation blade

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

#### External unwinder

The external unwinder is needed for rolls of material that are too large to fit into the printer. It automatically centers the rolls of materials when placed into the equipment and makes the feeding in of heavy rolls possible. Externally wound, as well as

internally wound rolls can be processed. The external unwinder has been designed to hold 3 in cab-label rolls. There is one version for the mp-TM EOS1 and one version for the mp-TM A4+M and mp-TM XD4T Twin.

#### External unwinder for 1" core

The external unwinder for 1" cores is suitable for holding 1 inch label rolls, such as pavonis label rolls and can also be used for the mp-TM EOS1, den mp-TM A4+M and den mp-TM XD4T Twin.

#### Internal roll holder for 1" core

The internal roll holder for 1 "core is required for printing TEP and TEG series labels.

#### Margin stop

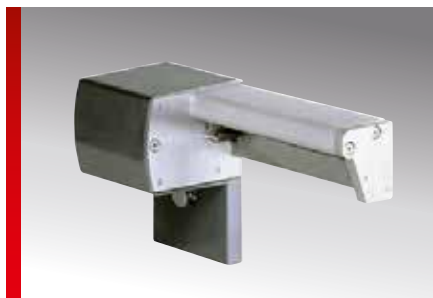
The margin stop centers the label rolls and is available for reorder as a spare part.

### SPECIFICATIONS

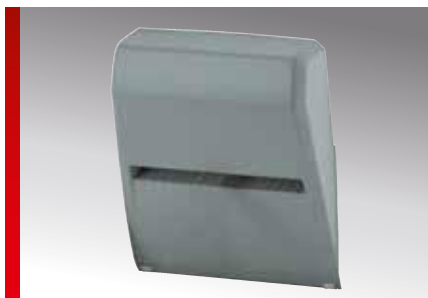


| Type                                                  | Order No. | Pack qty. |
|-------------------------------------------------------|-----------|-----------|
| <b>Accessories for mp-TM EOS1</b>                     |           |           |
| mp-TM EOS1 cutting blade                              | 86661820  | 1         |
| mp-TM EOS1 perforation blade                          | 86661821  | 1         |
| mp-TM EOS1 external unwinder                          | 86661825  | 1         |
| <b>Accessories for mp-TM Squix 4/M</b>                |           |           |
| mp-TM SQUIX 4/M cutting blade                         | 86661841  | 1         |
| mp-TM SQUIX 4/M perforation blade                     | 86661842  | 1         |
| <b>Accessories for mp-TM A4+M and mp-TM XD4T Twin</b> |           |           |
| mp-TM cutting blade                                   | 86661810  | 1         |
| mp-TM perforation blade                               | 86661811  | 1         |
| mp-TM external unwinder                               | 86661815  | 1         |
| <b>Accessories for mp-TM A4+M</b>                     |           |           |
| mp-TM internal roll holder for 1" core                | 86661832  | 1         |

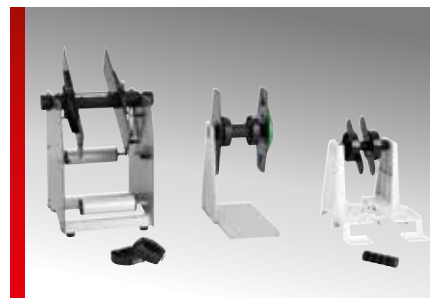
## Accessories for MP-TM Systems (Continued...)



**Squix 4/M / A4+M / XD4T cutting blade**



### Cutting blade EOS1



## External unwinder

[illegible]

1267



8

[illegible]



The pavonis thermal transfer printer offers high-resolution 300 dpi printing at 127 mm per second. The ribbon holding system for 300 m rolls reduces the frequency at which print film needs to be changed. The cutting mechanism supplied with the printer makes print process handling even easier.

- Print speed: 50.8 – 127 mm/s
- Max. printing width: 106 mm
- Printer ribbon roll: 300 m, 25.4 mm core diameter
- Label roll: 127 mm outside diameter
- Memory: 4 MB Flash, 8 MB SDRAM, SD

- card reader up to 4 GB
- Material width: 20 to 112 mm
- Thickness: 0.06–0.19 mm, max. 150 g/m<sup>2</sup>

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

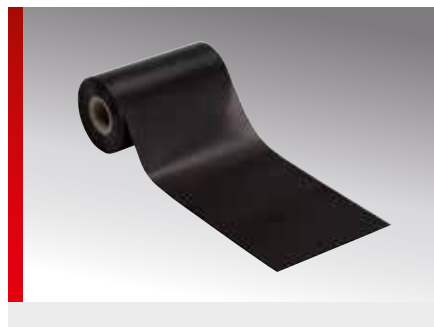
 Springer





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## FHW - resin/wax color printer ribbon



### PRODUCT INFORMATION

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

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

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

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

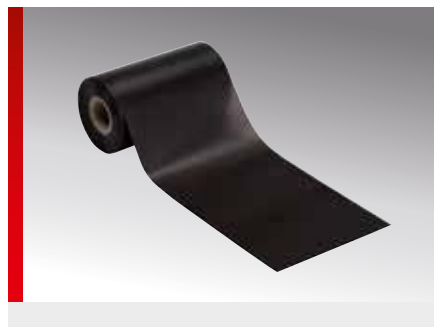
### SPECIFICATIONS



| Type                                                                  | Order No. | Color           | Roll width inch | Roll length ft. | Pack qty. |
|-----------------------------------------------------------------------|-----------|-----------------|-----------------|-----------------|-----------|
| <b>FHW - color ribbons for thermal transfer printers<sup>1)</sup></b> |           |                 |                 |                 |           |
| FHW 40x300 <sup>1)</sup>                                              | 86662100  | Black           | 1.57            | 984.25          | 300       |
| FHW 50x300 <sup>1)</sup>                                              | 86662101  | Black           | 1.97            | 984.25          | 300       |
| FHW 60x300 <sup>1)</sup>                                              | 86662102  | Black           | 2.36            | 984.25          | 300       |
| FHW 70x300 <sup>1)</sup>                                              | 86662103  | Black           | 2.76            | 984.25          | 300       |
| FHW 80x300 <sup>1)</sup>                                              | 86662104  | Black           | 3.15            | 984.25          | 300       |
| FHW 90x300 <sup>1)</sup>                                              | 86662105  | Black           | 3.54            | 984.25          | 300       |
| FHW 100x300 <sup>1)</sup>                                             | 86662106  | Black           | 3.94            | 984.25          | 300       |
| FHW 110x300 <sup>1)</sup>                                             | 86662107  | Black           | 4.33            | 984.25          | 300       |
| FHW 110x300 <sup>1)</sup>                                             | 86662108  | Red             | 4.33            | 984.25          | 300       |
| FHW 110x300 <sup>1)</sup>                                             | 86662109  | Green           | 4.33            | 984.25          | 300       |
| FHW 110x300 <sup>1)</sup>                                             | 86662110  | Reflecting blue | 4.33            | 984.25          | 300       |
| FHW 110x300 <sup>1)</sup>                                             | 86662111  | White           | 4.33            | 984.25          | 300       |
| FHW 110x300 <sup>1)</sup>                                             | 86662112  | Almond brown    | 4.33            | 984.25          | 300       |
| FHW 110x300 <sup>1)</sup>                                             | 86662113  | Violet          | 4.33            | 984.25          | 300       |
| FHW 110x300 <sup>1)</sup>                                             | 86662114  | Matt gold       | 4.33            | 984.25          | 300       |
| FHW 110x300 <sup>1)</sup>                                             | 86662115  | Matt silver     | 4.33            | 984.25          | 300       |
| FHW 110x300 <sup>1)</sup>                                             | 86662116  | Metallic gold   | 4.33            | 984.25          | 300       |
| FHW 110x300 <sup>1)</sup>                                             | 86662117  | Metallic silver | 4.33            | 984.25          | 300       |

<sup>1)</sup> Information about packaging unit = roll length (m)

## FH - resin color printer ribbon



### PRODUCT INFORMATION

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

#### FH series

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

#### FH+ series

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

#### FH++ series

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

### SPECIFICATIONS



| Type                                                                | Order No. | Color         | Roll width<br>inch | Roll length<br>ft. | Pack<br>qty. |
|---------------------------------------------------------------------|-----------|---------------|--------------------|--------------------|--------------|
| <b>FH color ribbons for thermal transfer printers<sup>1)</sup></b>  |           |               |                    |                    |              |
| FH 40x300 <sup>1)</sup>                                             | 86662200  | Black         | 1.57               | 984.25             | 300          |
| FH 50x300 <sup>1)</sup>                                             | 86662202  | Black         | 1.97               | 984.25             | 300          |
| FH 60x300 <sup>1)</sup>                                             | 86662205  | Black         | 2.36               | 984.25             | 300          |
| FH 70x300 <sup>1)</sup>                                             | 86662208  | Black         | 2.76               | 984.25             | 300          |
| FH 80x300 <sup>1)</sup>                                             | 86662210  | Black         | 3.15               | 984.25             | 300          |
| FH 90x300 <sup>1)</sup>                                             | 86662212  | Black         | 3.54               | 984.25             | 300          |
| FH 110x300 <sup>1)</sup>                                            | 86662214  | Black         | 4.33               | 984.25             | 300          |
| <b>FH+ color ribbons for thermal transfer printers<sup>1)</sup></b> |           |               |                    |                    |              |
| FH+ 40x300 <sup>1)</sup>                                            | 86662201  | Black         | 1.57               | 984.25             | 300          |
| FH+ 50x300 <sup>1)</sup>                                            | 86662203  | Black         | 1.97               | 984.25             | 300          |
| FH+ 55x300 <sup>1)</sup>                                            | 86662204  | Black         | 2.17               | 984.25             | 300          |
| FH+ 60x300 <sup>1)</sup>                                            | 86662206  | Black         | 2.36               | 984.25             | 300          |
| FH+ 70x300 <sup>1)</sup>                                            | 86662209  | Black         | 2.76               | 984.25             | 300          |
| FH+ 80x300 <sup>1)</sup>                                            | 86662211  | Black         | 3.15               | 984.25             | 300          |
| FH+ 90x300 <sup>1)</sup>                                            | 86662213  | Black         | 3.54               | 984.25             | 300          |
| FH+ 110x300 <sup>1)</sup>                                           | 86662215  | Black         | 4.33               | 984.25             | 300          |
| FH+ 110x300 <sup>1)</sup>                                           | 86662217  | Signal red    | 4.33               | 984.25             | 300          |
| FH+ 110x300 <sup>1)</sup>                                           | 86662218  | Signal green  | 4.33               | 984.25             | 300          |
| FH+ 110x300 <sup>1)</sup>                                           | 86662219  | Signal blue   | 4.33               | 984.25             | 300          |
| FH+ 110x300 <sup>1)</sup>                                           | 86662220  | Signal white  | 4.33               | 984.25             | 300          |
| FH+ 110x300 <sup>1)</sup>                                           | 86662221  | Signal gray   | 4.33               | 984.25             | 300          |
| FH+ 110x300 <sup>1)</sup>                                           | 86662222  | Signal orange | 4.33               | 984.25             | 300          |
| FH+ 110x300 <sup>1)</sup>                                           | 86662223  | Signal yellow | 4.33               | 984.25             | 300          |







In addition to a contemporary graphical interface, the mp-UniversalMarkingSoftware offers various added values for the users.

- Interactive working
- Improved performance
- More stable system
- Improved user guidance
- More interactive and better print preview

- ❗ Parallel installations with ACS Gold Studio are not recommended.
- ❗ ACS Gold Studio projects cannot be processed.
- ❗ Currently no support for pulsar and CAM.

[illegible]

## ACS Gold Studio



## PRODUCT INFORMATION

**From the planning stage to the inscription on the label... Plot, print, engrave and laser with one software package!**

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

- A software for company-wide labeling.
- The ACS Gold Studio software combines the labelling technologies of plotting, ink-jet and thermal transfer method printing, engraving and lasing in one interface.

- The software supports the actuation of all Windows-compatible output devices.
- One central labeling workstation keeps procurement, training and maintenance costs to a minimum.
- The Unicode application can handle all Windows character sets.
- Data import via clipboard or automated from Excel or text file.

## SPECIFICATIONS

- ! Parallel installations with mp-Universal-MarkingSoftware are not recommended.
  - ! mp-UniversalMarkingSoftware projects cannot be processed

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## Base plates for labeling systems



GP3



GP3K



GPU A4

### PRODUCT INFORMATION

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

| Type                                                              | Order No. | Pack qty. |
|-------------------------------------------------------------------|-----------|-----------|
| <b>Base plates for labels</b>                                     |           |           |
| GP1                                                               | 86351210  | 1         |
| GP3                                                               | 86351212  | 1         |
| GP3C                                                              | 86661050  | 1         |
| GP3K                                                              | 86661034  | 1         |
| GP3M                                                              | 86661031  | 1         |
| GP3Q                                                              | 86661035  | 1         |
| GP4                                                               | 86351214  | 1         |
| GP4E                                                              | 86351216  | 1         |
| GP4L                                                              | 86351217  | 1         |
| GP5                                                               | 86351218  | 1         |
| GP KDE                                                            | 86661037  | 1         |
| GRPD/10                                                           | 86351016  | 1         |
| GRPD/18                                                           | 86351018  | 1         |
| <b>Base plates for DuoMatt, Monomatt, Alu, Alumatt and labels</b> |           |           |
| GPU A3                                                            | 86621026  | 1         |
| GPU A4                                                            | 86621023  | 1         |
| <b>Replacement mat for base plates GPU A3 and GPU A4</b>          |           |           |
| GPU A3 420x300 adhesive mat                                       | 86721022  | 1         |
| GPU A4 305x205 adhesive mat                                       | 86721020  | 1         |

Die pulsar GPU 140x140 base plate with adhesive properties for mounting the ESK, EST, ALU/K, MM/K and ELF is listed in labeling materials in the labeling system of pulsar M6 / pulsar A6 accessories.

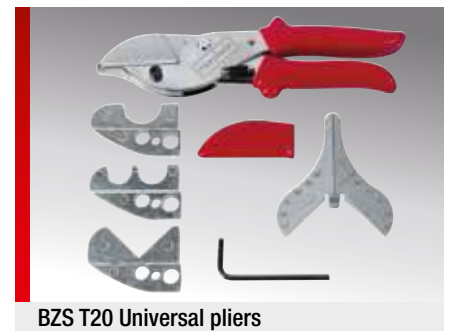
The label plate and exchange plate for the pictor<sup>2</sup> are listed in the labeling systems section under pictor<sup>2</sup> / pictor<sup>2</sup> Black accessories.

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

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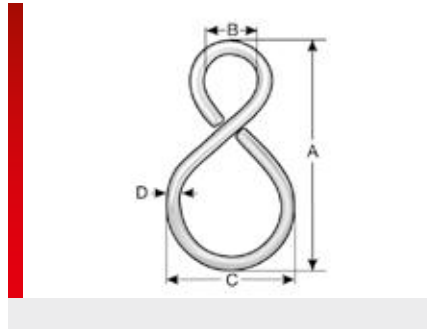
**KM T10 multi-purpose tool**



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

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## S-hook



## PRODUCT INFORMATION

S-hooks serve to fix the labels in place. They ensure a simple and easy installation on cables and conduits.





## Appendix



## Selection table combination options labels/base plates

| TYPE OF LABEL PLATE | BASE PLATES     |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                | SHEET / LABEL MATERIALS   |  |  |
|---------------------|-----------------|-----------------|------------------|------------------|------------------|-----------------|------------------|------------------|-----------------|--------------------|---------------------|---------------------|--------------------|--------------------|--------------------------------|---------------------------|--|--|
|                     | GP1<br>86351210 | GP3<br>86351212 | GP3C<br>86661050 | GP3K<br>86661034 | GP3Q<br>86661035 | GP4<br>86351214 | GP4E<br>86351216 | GP4L<br>86351217 | GP5<br>86351218 | GP KDE<br>86661037 | GRPD/10<br>86351016 | GRPD/18<br>86351018 | GPU A3<br>86621026 | GPU A4<br>86621023 | pulsar GPU 140x140<br>86621029 | no base plate<br>required |  |  |
| ABB                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| ALM                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| ALU                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| ALU/K               |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| B&R                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| BEC                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| BS                  |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| BS 5L               |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| BS 6L               |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| DM                  |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| EDG                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| ELF                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| ELF/T               |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| ELG                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| ELPT                |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| ELW                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| ES                  |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| ESK                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| ESL                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| EST                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KAB                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KAB 17/10           |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KAB 5/5.4-5         |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KBT                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KDE                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KDL/E               |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KES                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KET                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KLG                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KMO                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KMR (> */5*)        |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KMR 5/5-5.1         |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KNC                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KNQ                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KPF                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KPX */10*           |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KPX */15*           |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KPX */5*            |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KPX */7.5*          |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KPX U/5 ZS          |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KS 15/*             |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KS 4/*              |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KS 4/* 4ST          |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KS 5/10             |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KS 75/50            |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KS 95/75            |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KSA                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KSB                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KSD                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KSE */10            |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KSE */18            |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KSF 10/8            |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |
| KSI                 |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                    |                    |                                |                           |  |  |

Continued on the next page

| TYPE OF LABEL<br>PLATE | BASE PLATES     |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     | SHEET / LABEL<br>MATERIALS |                    |                                |                           |
|------------------------|-----------------|-----------------|------------------|------------------|------------------|-----------------|------------------|------------------|-----------------|--------------------|---------------------|---------------------|----------------------------|--------------------|--------------------------------|---------------------------|
|                        | GP1<br>86351210 | GP3<br>86351212 | GP3C<br>86661050 | GP3K<br>86661034 | GP3Q<br>86661035 | GP4<br>86351214 | GP4E<br>86351216 | GP4L<br>86351217 | GP5<br>86351218 | GP KDE<br>86661037 | GRPD/10<br>86351016 | GRPD/18<br>86351018 | GPU A3<br>86621026         | GPU A4<br>86621023 | pulsar GPU 140x140<br>86621029 | no base plate<br>required |
| KSL                    |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                            |                    |                                |                           |
| KSN                    |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                            |                    |                                |                           |
| KSO / KSK              |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                            |                    |                                |                           |
| KSO / KSK 70x9         |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                            |                    |                                |                           |
| KSS                    |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                            |                    |                                |                           |
| KST                    |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                            |                    |                                |                           |
| KSZ                    |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                            |                    |                                |                           |
| KTE                    |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                            |                    |                                |                           |
| KWI                    |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                            |                    |                                |                           |
| MM                     |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                            |                    |                                |                           |
| MM/K                   |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                            |                    |                                |                           |
| SKS                    |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                            |                    |                                |                           |
| TBT                    |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                            |                    |                                |                           |
| TK                     |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                            |                    |                                |                           |
| TS                     |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                            |                    |                                |                           |
| TTE/L                  |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                            |                    |                                |                           |
| WGO                    |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                            |                    |                                |                           |
| WGO 5/5-5              |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                            |                    |                                |                           |

## Selection table Combination options Devices/Base plates

| DEVICES                             | BASE PLATES     |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     | SHEET / LABEL MATERIALS |                    |                                |                                             |
|-------------------------------------|-----------------|-----------------|------------------|------------------|------------------|-----------------|------------------|------------------|-----------------|--------------------|---------------------|---------------------|-------------------------|--------------------|--------------------------------|---------------------------------------------|
|                                     | GP1<br>86351210 | GP3<br>86351212 | GP3C<br>86661050 | GP3K<br>86661034 | GP3Q<br>86661035 | GP4<br>86351214 | GP4E<br>86351216 | GP4L<br>86351217 | GP5<br>86351218 | GP KDE<br>86661037 | GRPD/10<br>86351016 | GRPD/18<br>86351018 | GPU A3<br>86621026      | GPU A4<br>86621023 | pulsar GPU 140x140<br>86621029 | pictor <sup>2</sup> label plate<br>86625147 |
| <b>Plotter and engraving option</b> |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                         |                    |                                |                                             |
| mp-PM Basic                         |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                         |                    |                                |                                             |
| mp-EM opt. Basic                    |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                         |                    |                                |                                             |
| mp-PM A3                            |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                         |                    |                                |                                             |
| mp-EM opt. A3                       |                 |                 |                  |                  |                  |                 |                  |                  |                 |                    |                     |                     |                         |                    |                                |                                             |
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## Material descriptions

### **PMMA Polymethyl methacrylate Co-Polymer**

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

|                         |                                           |
|-------------------------|-------------------------------------------|
| Processing temperature: | 26.6 °F to 179.6 °F                       |
| Flammability:           | Fire classification HB according to UL-94 |
| Water absorption:       | 0.36 %                                    |
| Crack resistance:       | 35 %                                      |
| Impact strength:        | 58.5 J/m <sup>2</sup>                     |

### **ABS Acrylonitrile butadiene styrene**

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

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

### **PC Polycarbonate**

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. 284 °F and, as a general rule, PC is self-extinguishing even without the addition of fire-retardants.

|                            |                                     |
|----------------------------|-------------------------------------|
| Temperature stability:     | to 284 °F                           |
| Resistance to deformation: | at 1.8 N/mm 275 °F                  |
| Flammability:              | V0 according to UL94                |
| Halogen-free               | according to DIN/VDE 0472, part 815 |
| UV-stabilised              |                                     |

### **PP Polypropylene**

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

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

### **PA Polyamide**

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

|                        |                      |
|------------------------|----------------------|
| Temperature stability: | up to 284 °F         |
| Fire classification:   | V2 according to UL94 |

### **PVC Polyvinyl chloride**

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

|                        |                      |
|------------------------|----------------------|
| Temperature stability: | up to 140 °F         |
| Fire classification:   | V0 according to UL94 |

### **TPU Thermoplastic Polyurethane**

Outstanding features of this material include its outstanding flexibility, even at very low temperatures, high continuous operating temperature and excellent resistance to tear propagation, as well as very good restoring forces, high resistance to grease, oil, solvents, high-energy radiation and ultraviolet light.

|                           |                                     |
|---------------------------|-------------------------------------|
| Continuous operation use: | -31 °F to 248 °F                    |
| Fire classification:      | V0 according to UL94                |
| Halogen-free              | according to DIN/VDE 0472, part 815 |

## Material descriptions

### Label laser foil (ELF)

#### **PAK Polyacrylate**

Available in the colours silver/black and black/white.

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

Temperature-resistant: -40 °F to +572 °F  
Self-extinguishing after 15 seconds in case of fire  
Non-drip. Covers highly contrasting base/primer colours.

### Heat-shrink tubes

#### **Type ST-BT**

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

Usage temperature: -67 °F to +221 °F  
Tensile strength: 10N/mm 2  
Crack resistance: 200 %  
Flammability rating: HB per ASTM D 635

#### **Type ST-ECO**

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

Usage temperature: -67 °F to +275 °F  
Water absorption: 0.20 %  
Break resistance: kl. 11N/mm<sup>2</sup>  
Spec. Volume resistance: 10<sup>16</sup> Ohm/cm  
Flammability rating: UL 224, 177 °F

### Self-adhesive sheet labels

Self-adhesive films are tested and approved in conjunction with specific substrates under the UL classification "Polymer Adhesive Systems". For this reason, all self-adhesive films should be tested on the respective substrates instead of merely testing the self-adhesive film alone.

| Sheet labels of types      | Material           | Thermal stability                                                | Fire classification  | Adhesive strength |
|----------------------------|--------------------|------------------------------------------------------------------|----------------------|-------------------|
| ELG / ELW / ELO / ES / ESL | Polyester film     | -40 °Fv to 302 °F permanent<br>min. processing temperature 41 °F | V0 according to UL94 | 17 N/10 mm        |
| EDG                        | Reinforced textile | 0 °C to 176 °F                                                   |                      | 9 N/25 mm         |

#### **Adhesive 467**

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

Adhesive strength: 11 N/10 mm  
Thermal stability: -40 °F to 302 °F permanent  
392 °F transient  
Processing temperature: 64,4 °F minimum



## Material descriptions



### Adhesive 468

- Acrylat A-30
- Fire classifications: MIL-P-19834 B, Amend 1Typ1  
UL approved (MH-11410)  
complies with AGA and CSA requirements
- Suitable for rough and textured surfaces
- RoHS-specified
- Adhesive thickness 0.01 in (0.13 mm)

Adhesive strength: 11 N/10 mm  
Thermal stability: -40 °F to 302 °F permanent  
392 °F short term  
Processing temperature: 64.4 °F minimum



### Adhesive 1780

- Polyethylene foam

Adhesive strength: 10 N/15 mm  
Thermal stability: -40 °F to 302 °F permanent  
Processing temperature: 50 °F to 176 °F



### Adhesive 1917

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

Adhesive power on steel: 3.8 N/cm  
Ultimate elongation: 7%  
Tear strength: 100 N/cm  
Thermal stability: 356 °F (30 min)



### Adhesive 4830

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

Thermal stability: -40 °F to 302 °F  
Processing temperature: 50 °F minimum  
Shelf life: 2 years at 69.8 °F and 50% humidity



### Adhesive 4883

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

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



### Adhesive 4930

- Polyacrylate mixed with adhesive resin

Thermal stability: 199.4 °F maximum  
300.2 °F short term  
Processing temperature: 50 °F minimum  
Solubility: insoluble



### Adhesive 4965

- Polyacrylate mixed with adhesive resin

Thermal stability: 199.4 °F maximum  
300.2 °F short term  
Processing temperature: 50 °F minimum  
Solubility: insoluble



### Adhesive 5917

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

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



### Adhesive 9088

- Modified acrylate
- High-performance, double-sided adhesive tape
- High holding force on high- and low-energy surfaces (e.g. PE, PP)
- Suitable for rough and textured surfaces
- Developed for strong adhesion

Adhesive strength: 150 (N/100 mm)  
Thermal stability: 24.8 °F to +199.4 °F permanent  
302 °F short term  
Processing temperature: 64.4 °F minimum  
Resistance to solvents: good

## Material properties

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

Polycarbonate (PC) is used for any applications requiring a high-quality surface finish with respect to scratch resistance and gloss level. For instance, PC is often used in the automotive sector for headlight lenses and as PC/ABS blends for the interior. By contrast, polyamide (PA) is rarely found in interior fittings, even as a blend. Polyamides are, however, prevalent under the hood, for example, where less significance is attached to the appearance.

For use as a label plate, polyamide has another unfavourable property: ambient water absorption of approx. two percent by weight. This will cause dimensional variations (smaller dimensions at low temperatures and low air humidity, larger dimensions at high temperatures and high air humidity). The absorption of water does not tend to affect the dimensions of the label plates too severely, but it does make an undue impact on the properties of the material. Indeed, if water absorption is low, the material is very brittle and tends to break (e.g. when latching

onto a terminal block). Conversely, if water absorption is high, then it is very soft and it may be difficult to separate plates from each other (tear response).

Polycarbonate provides a clear advantage compared to Polyamide, especially with regard to printability. Since PC is more prone to chemical reaction, it lends itself well to labelling with ink and pigments and also to laser inscription. Whereas PA scarcely reacts to the energy application of laser light, the colour change achieved with PC is outstanding.

The chemical reactivity of polycarbonate during the inscription process makes inks and pigments very abrasion-resistant. If the resistance to abrasion and water is good in both materials, then the inscription on polyamide wears off significantly, if it comes into contact with oil, petrol or spirit. Polycarbonate, however, is resistant to these substances as well.

## Tested material properties and associated test procedures

| Characteristic                                                                                          | Test procedure                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Flammability        | Flammability according to UL94                                                                                                                                                                                                     |
|  Halogen-free rating | The material for the ACS label plates may be described as halogen-free according to DIN/VDE 0472, Section 814. This means a total bromine and chlorine content < 0.2 % and fluorine < 0.1 %.                                       |
|  UV-resistance       | Test in UV light chamber in accordance with Murrplastik in-house standard. Assessment of labelling for clear legibility based on DIN EN ISO-4892-2.                                                                                |
| Ageing                                                                                                  | Regular testing in climate simulation chamber as per Murrplastik in-house standard                                                                                                                                                 |
| Functional testing                                                                                      | Trial mounting of sleeves at different temperatures.<br>Assessment of fit at maximum and minimum diameters.<br>Handling test on carrier/plate.<br>Test of fit of plate in sleeve.                                                  |
| Hardness testing                                                                                        | Test based on Shore A - ISO 868                                                                                                                                                                                                    |
| Vibration, shock and impact properties                                                                  | Vibration, shock and impact test conforming to DIN EN 50155 Point 10.2.11<br>Simulated durability test using increased wide band random vibration as specified by DIN EN 16373 (VDE 0155 Part 103): 1999-11 Point 9.1 Category 1B. |
| Smear resistance                                                                                        | Tests measuring resistance to wiping off when exposed to machine oil, water, ethyl alcohol and hand perspiration.                                                                                                                  |
| Scratch/abrasion resistance                                                                             | Test determining changes to legibility with different types of inscription (ink / printing / laser) pursuant to Murrplastik in-house standard.                                                                                     |
| Chemical resistance of the inscription                                                                  | Test for chemical resistance based on Murrplastik in-house standard.                                                                                                                                                               |



## Notes

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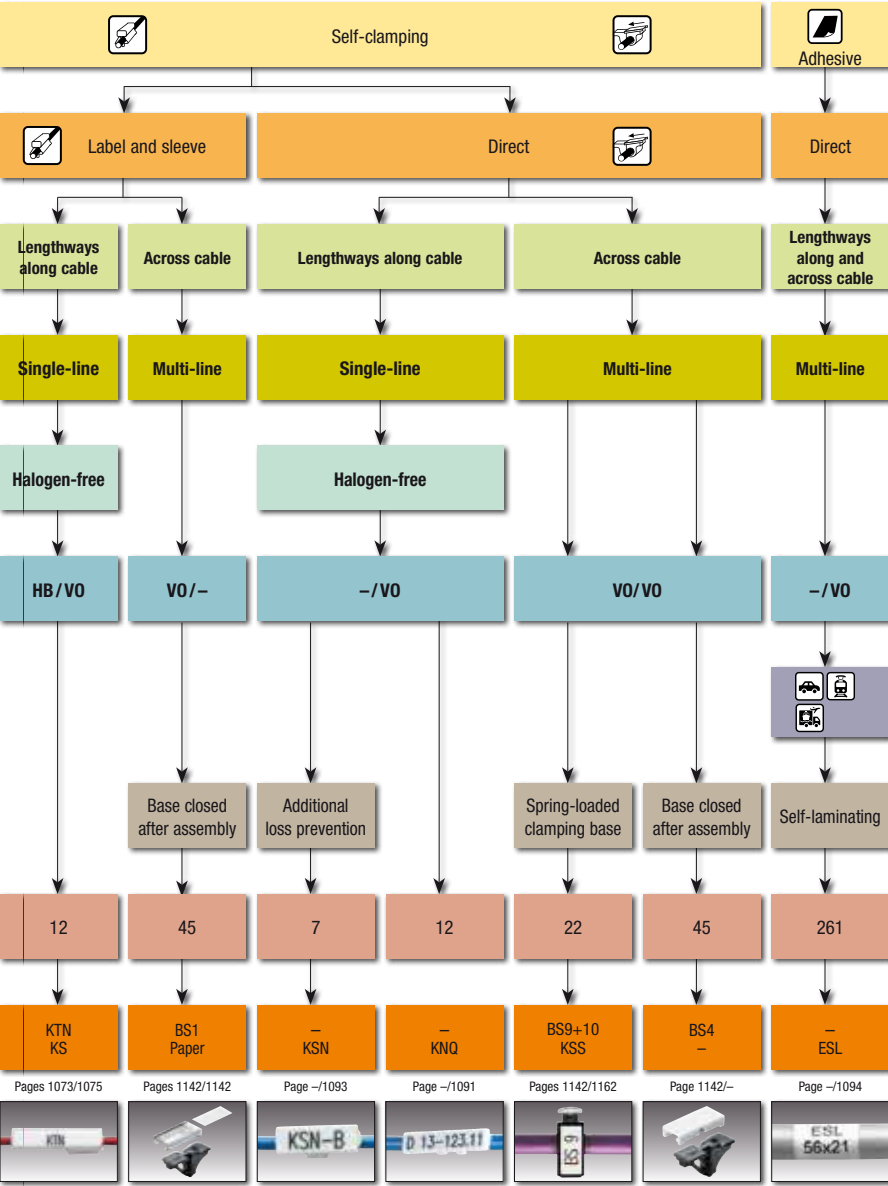
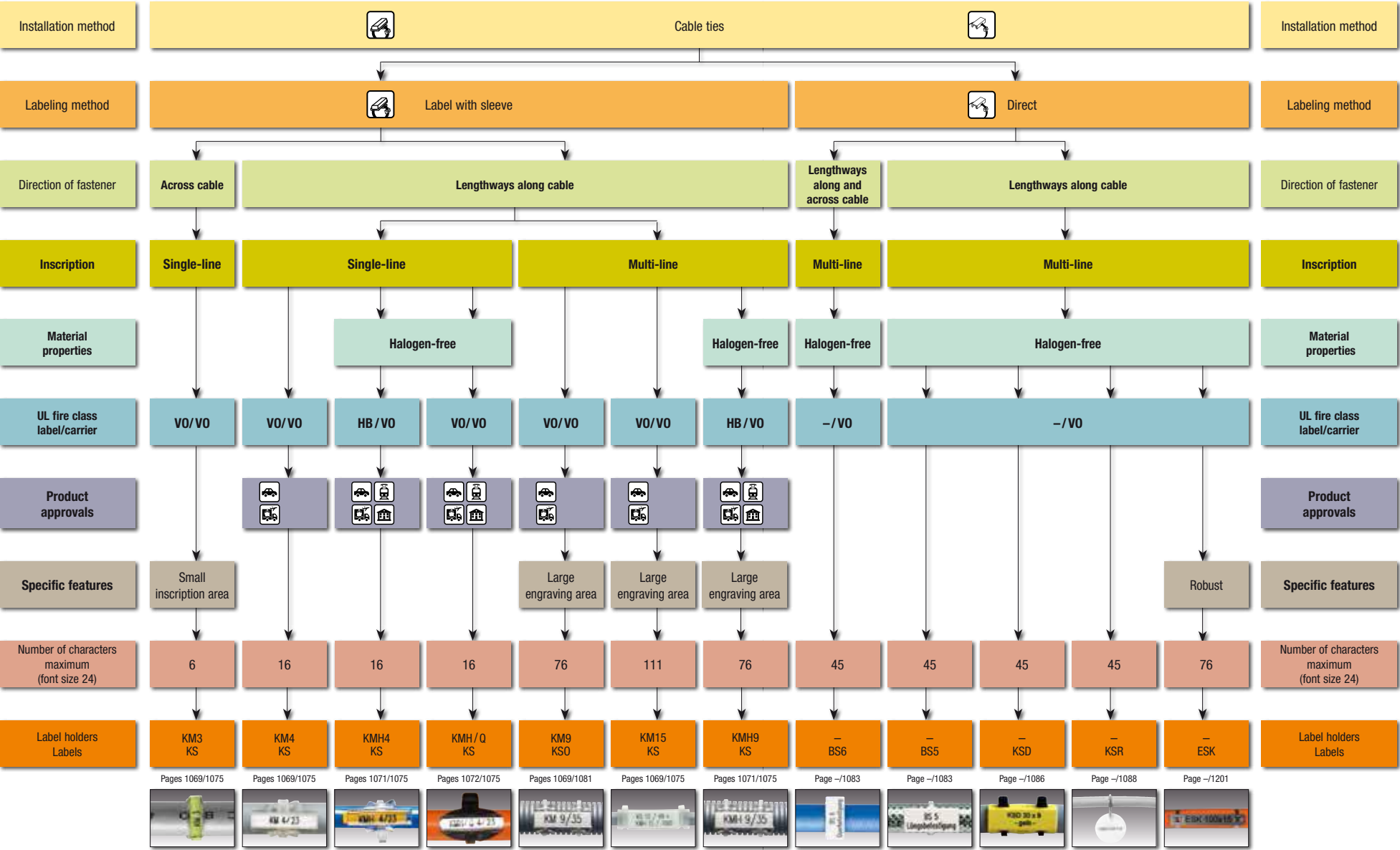
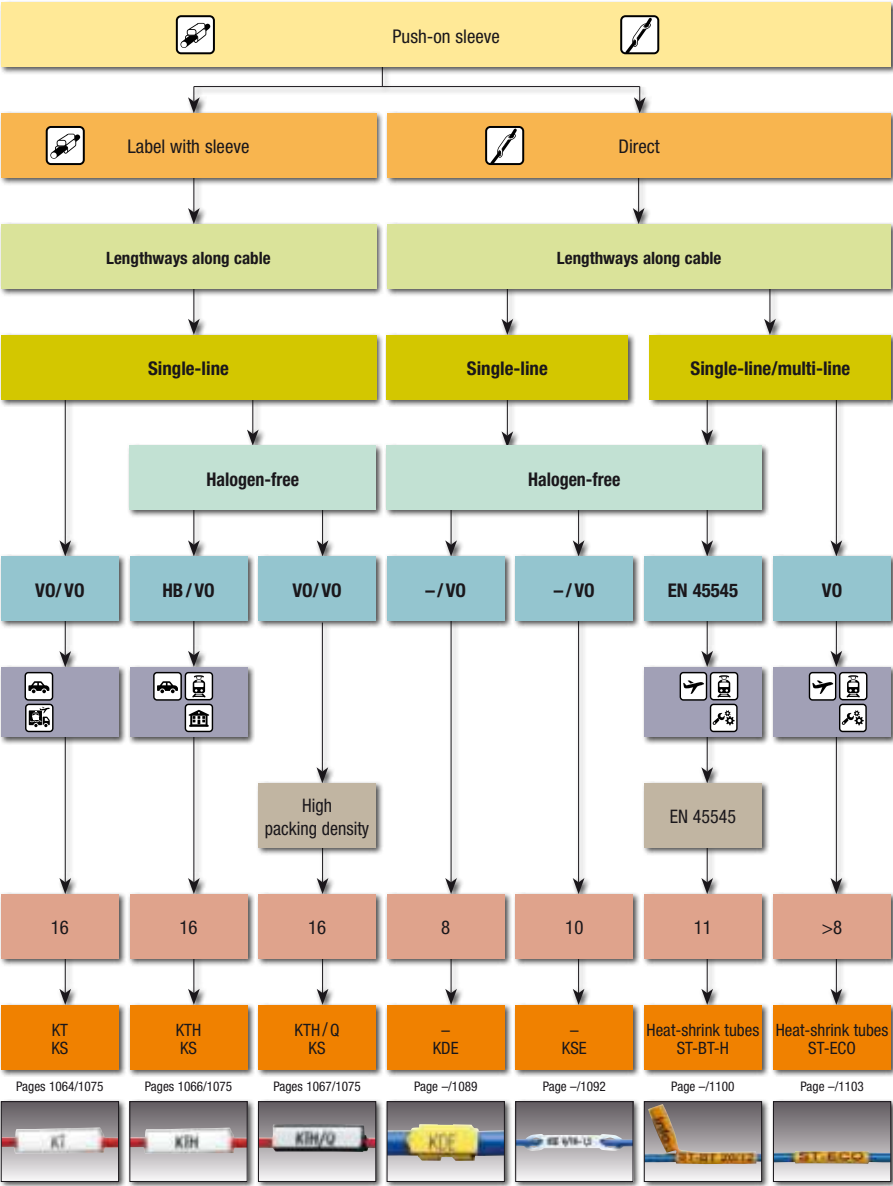
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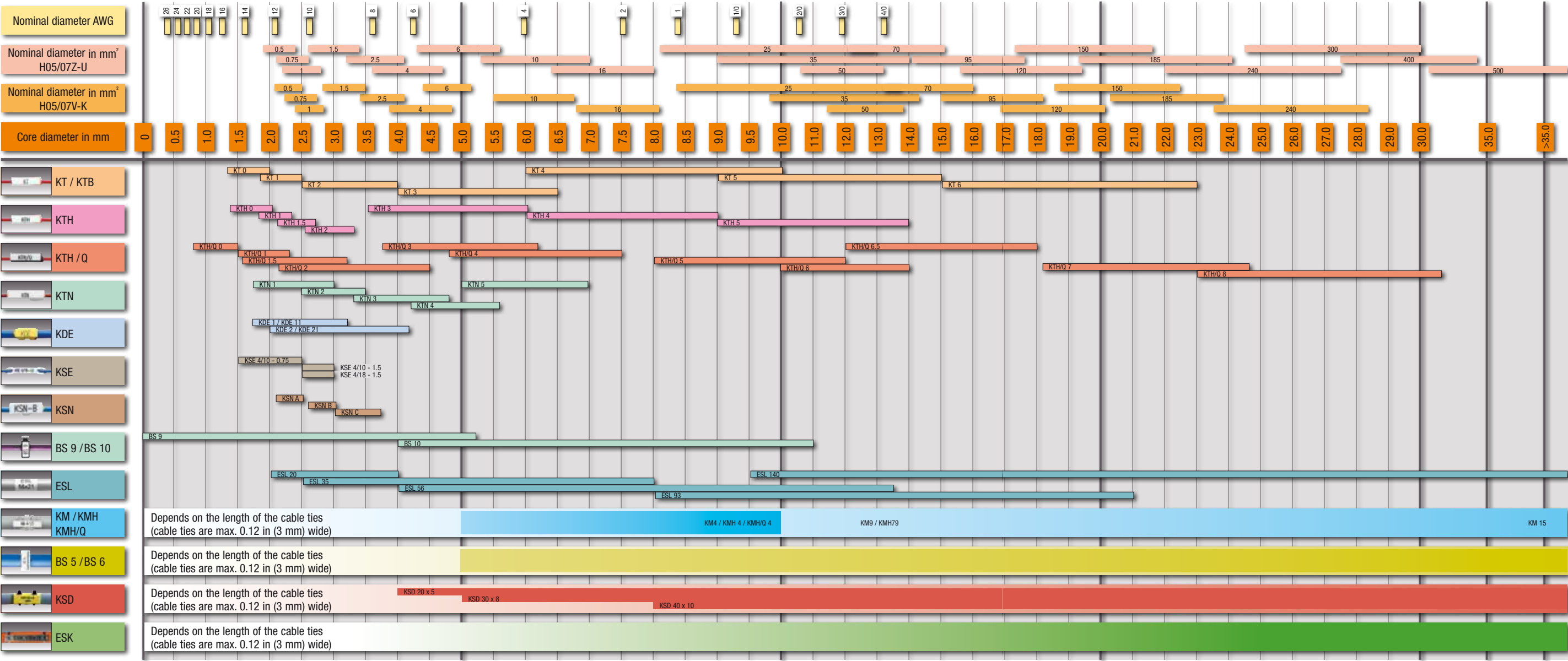


Selection table single wire, cable and conduit labeling





Allocation table





Notes

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