

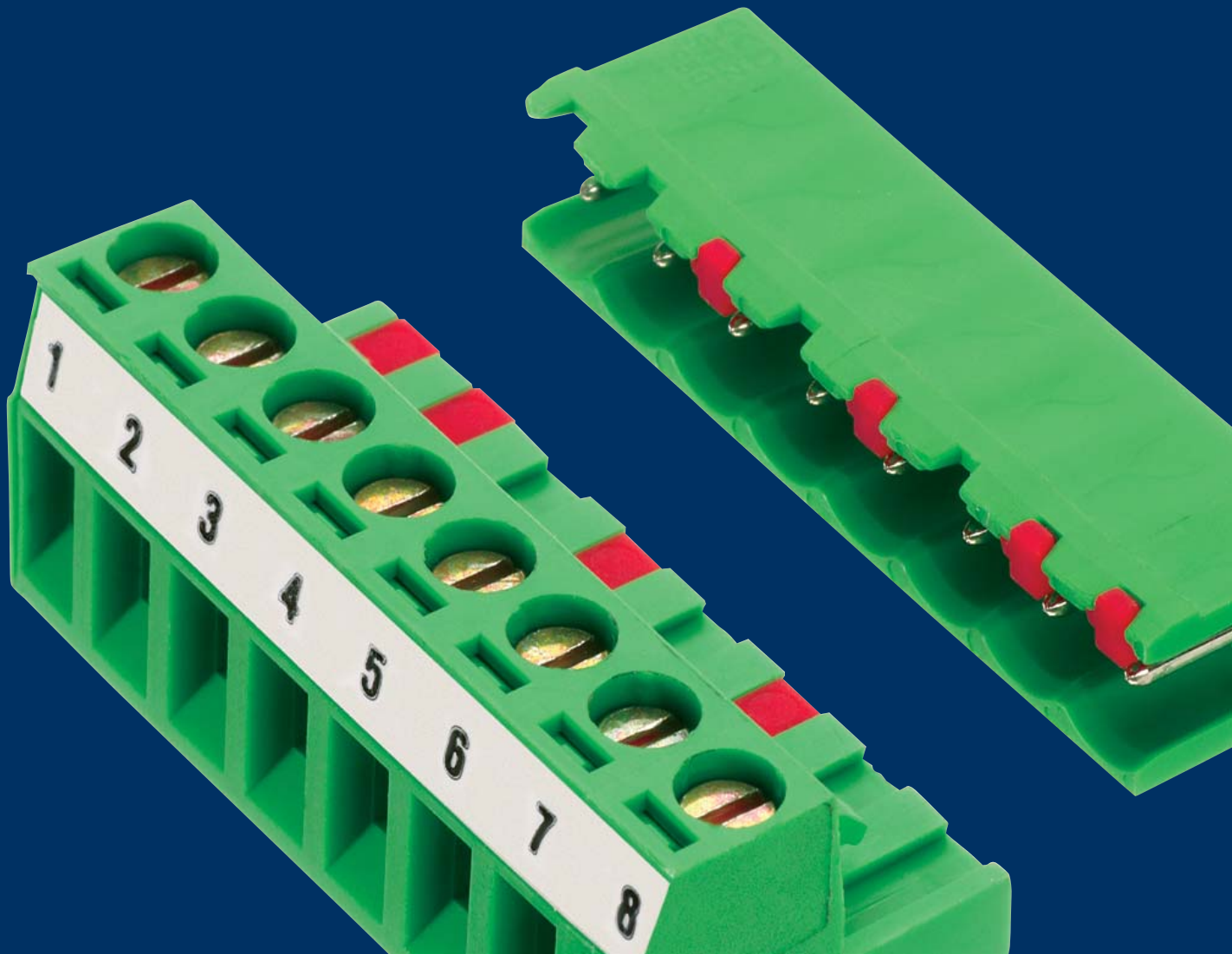
## Accessories

### CONTA-CON

Numerous accessories are designed to complete our vast range of printed circuit board connectors to optimize your connecting system according to your individual requirements.

For more information:

- . Coding **K**
- . Single Shrouding Cover **AD/PK** for **PK 750** and **PKB 950**
- . Filler plug **BLS-STL**
- . Lettering and Marking **BK/SB**
- . Rail Mounting System **RS-SP** [shaped profile]



## Overview accessories

### CONTA-CON

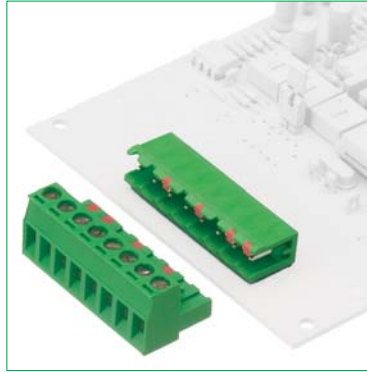
The **CONTA-CON** coding system is intended to enable the user to encode a large number of our connectors and headers. For more details cf. "Coding".

All **CONTA-CON** products are shipped without any pole designation and/or lettering. Please cf. "Coding" for the numerous individual coding possibilities.

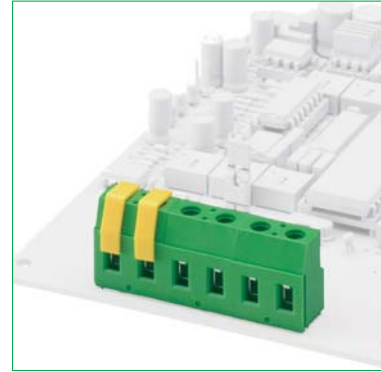
Our rail mounting system **RS-SP** is designed to be adapted to the individual printed circuit board dimensions which, as outlined under "rail mounting system", enables you to produce quite a number of rail-mountable electronic connections.

According to various VDE requirements, mains terminals have to be equipped with a shrouding cover in addition to an IP 20 protection. Single shrouding cover **AD/PK** is available for printed circuit board connector **PK 750** and printed circuit board plug-in connector [connector] **PKB 950**.

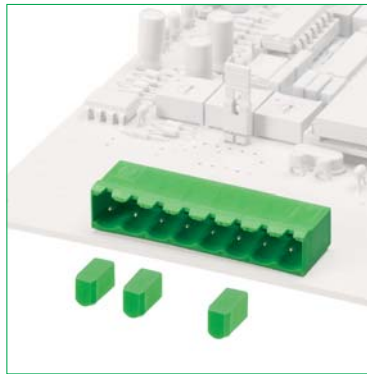
Filler plug **BLS-STL** is used to subdivide relatively long headers into several sections.



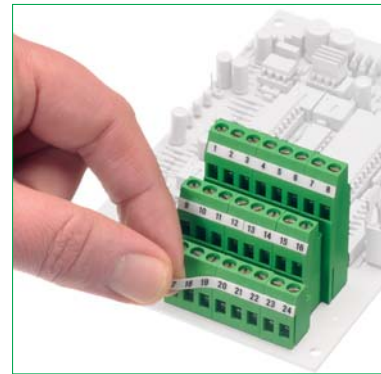
Coding System K	
Matrix of all coding possibilities	
<b>K1</b> for coding of connectors	124
<b>K2</b> for coding of headers	124
<b>K3</b> for coding of headers	124
Types <b>STL 1550, 1570, 1590</b>	



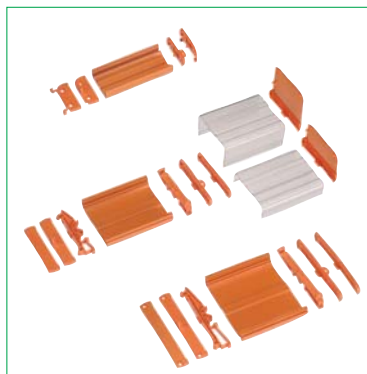
AD/PK	
Individual shrouding cover for	
<b>PK 750</b> and <b>PKB 950</b>	125



Filler plug	
Filler plug for subdivision of headers	
	125



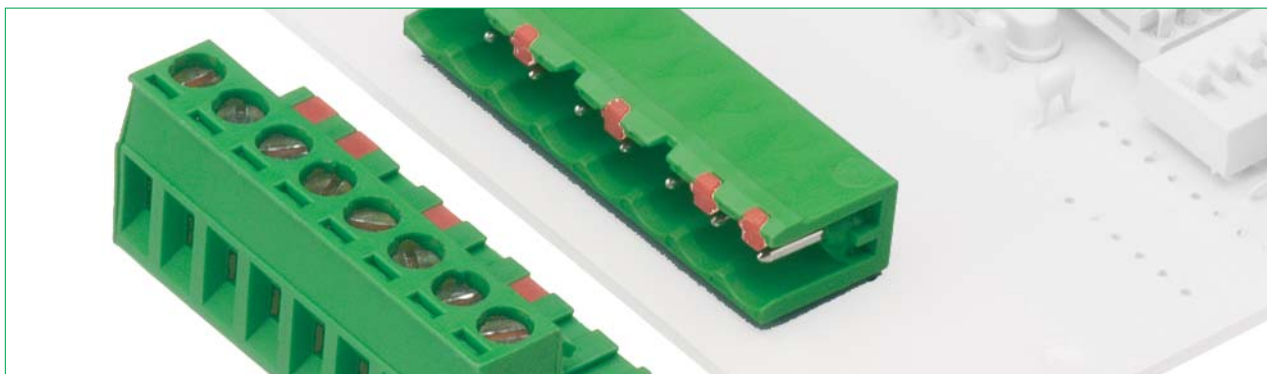
Marking	
Lettering Card <b>BK</b>	
	126



CONTA-CLIP Rail Mounting System	
<b>RS-SPO</b>	131
<b>RS-SP1</b>	131
<b>RS-SP2</b>	131

## Coding System K

for coding of our printed circuit board plug-in connector family.



The **CONTA-CON** coding system K is intended to enable the user to encode our P.C. board plug-in connectors **PKB 950/960/1100/1110/1550/1551/ 1552, PBT 1200** and **PZB 3950** without loss of poles and incorrect plugging.

The coding elements [profiles] are fastened to the star-shaped mounting plates. Mechanical coding is effected by positioning the individual coding profiles in the patchboard.

These coding profiles are pushed into the respective guide grooves in the enclosure of the connector and header and pinched off to separate them from the mounting plate.

Types 1550, 1551, 1552, 1570 and 1590 however are an exception because, in their case, coding is effected by placing the coding profiles into the groove of the plug header.

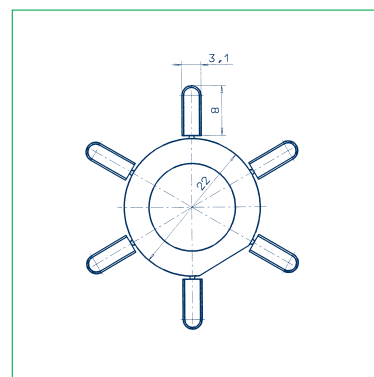
Connectors have "lugs" at their enclosures which permit easy removal and individual coding.

**Coding system K** is designed for coding of P.C. board plug-in connectors without loss of pole.

The coding matrix on the next page is intended to illustrate the respective combinations possibilities.



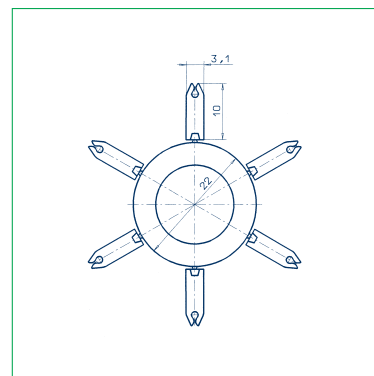
**Coding K1**  
for coding of connectors



**Cat.-No. 12002.9**  
Qty. p. pck. 100 stars (600 tabs)



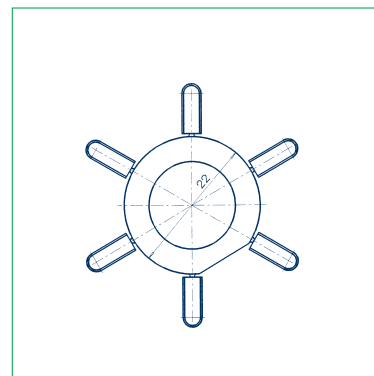
**Coding K2**  
for coding of headers



**Cat.-No. 12003.9**  
Qty. p. pck. 100 stars (600 tabs)



**Coding K3**  
for coding of headers type  
**STL 1550, 1570, 1590**



**Cat.-No. 12004.9**  
Qty. p. pck. 100 stars (600 tabs)

## Coding System K

Coding possibilities of connectors and headers of the **CONTA-CON** P.C. board plug-in connector system family.

		HEADERS								
CONNECTORS		STL 950	STL 960	STL 970	STL 975	STL 990	STL 1550	STL 1570	STL 1590	
	PKB 950	K2 K1		K2 K1	K2 K1	K2 K1	K2 K1			
	PKB 960		K2 K1							
	PKB 1100	K2 K1		K2 K1	K2 K1	K2 K1				
	PKB 1110	K2 K1		K2 K1	K2 K1	K2 K1				
	PBT 1200	K2 K1		K2 K1		K2 K1				
	PZB 3950	K2 K1			K2 K1					
	PKB 1550						K3	K3	K3	
	PKB 1551						K3	K3	K3	
	PKB 1552						K3	K3	K3	

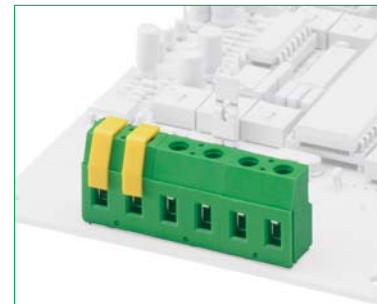
### AD/PK

#### Individual shrouding cover

According to various VDE requirements, mains terminals have to be equipped with a shrouding cover in addition to an IP 20 protection. Single shrouding cover **AD/PK** is available for printed circuit board connector **PK 750** and printed circuit board plug-in connector [connector] **PKB 950**.



Type **AD/PK yellow**  
Cat.-No. **13283.8**  
Qty. p. pck. 100 pcs.



Ex. **AD/PK** on **PK750**

### BLS-STL

#### Filler plugs to subdivide headers

Filler plug **BLS-STL** is used to subdivide relatively long headers into several sections.

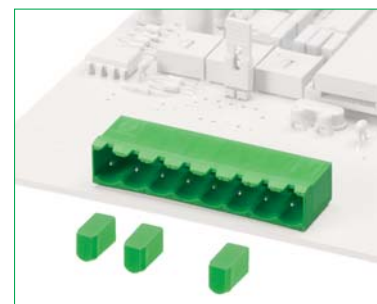
Furthermore this serves to clearly sectionalize relatively long headers.

#### Protection against incorrect connection

Protection of individual headers against dust and touching.



Type **BLS-STL**  
Cat.-No. **13284.1**  
Qty. p. pck. 100 pcs.



Ex. **BL-STL**

## Marking

*Strip height 2,8 mm, 3,3 mm or 3,8 mm*

All printed circuit board terminals and printed circuit board plug-in connectors are shipped without any pole designation and/or lettering.

Customized lettering of all **CONTA-CON** connectors available at extra charge.

Imprinted or neutral adhesive **marking cards BK** are also available.

Such adhesive strips can be attached to any of the printed board or plug-in connectors which do not have a guide groove (except see below). Existing strip heights: 2.8 mm, 3.3 mm or 3.8 mm. Depending on their version, 12 or 14 marking strips with 10 or 12 marking tags each are contained on one **marking card BK**.

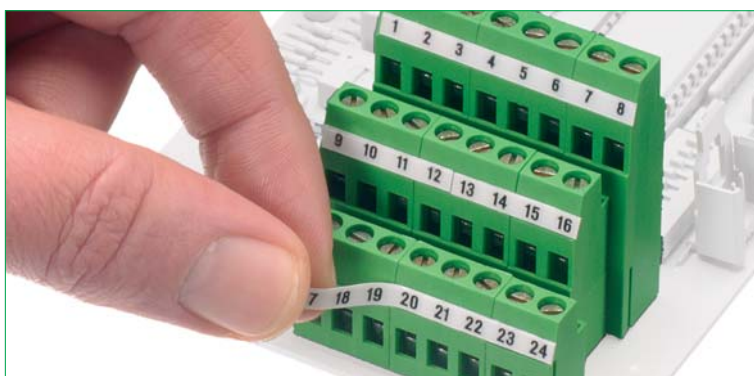
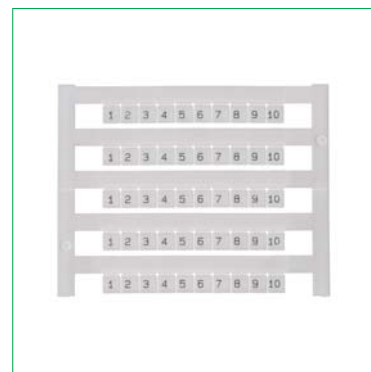
These cards are available for the following spacings of the **CONTA-CON** printed circuit board connectors: 2,50; 2,54; 3,50; 3,81; 5,00; 5,08; 7,50; 7,62. Marking cards with a horizontal standard continuous marking from 0 thru 40 are available for these spacings.

Non printed 10 pole cards with spacing marks are available for individual markings which can be done by hand using marker **BS-1**. Individual machine manufactured marking cards are available upon request.

**Exception:**

As regards the printed board connectors **PK 2,5**; **PKDL 2,5** and **PKDR 2,5** the insulating enclosure is equipped with a groove to snap a marking label. Please see our catalogue **CONTA-CONNECT** for a detailed product description of this quick marking system **SB**. A more detailed product description for the marking system can be found in our **CONTA-LABEL** catalogs (marking systems) and in **CONTA-CONNECT**.

Terminal marking system  
The **PMC** Pocket-Maxicard



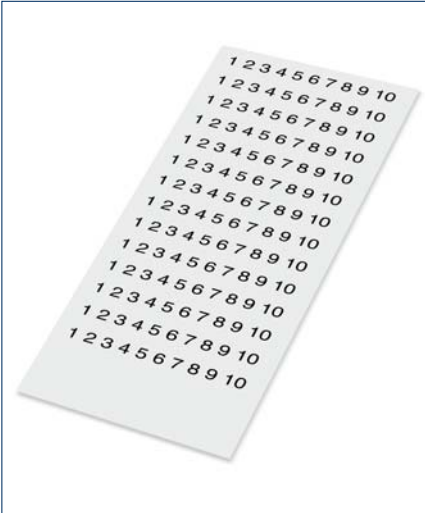
Ex. Marking cards **BK**



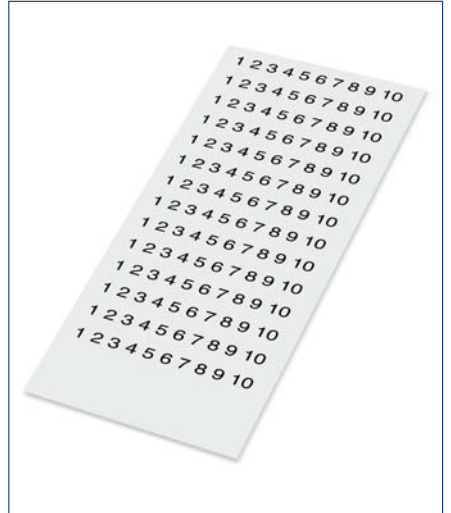
The **PMC SB** Pocket-Maxicard - application

### Marking Card BK

### BK 2,50/2,8



### BK 2,54/2,8



#### Component parts

Marking Card, non printed, free spacing, including 14 prepunched marking strips.

Card, printed; continuous, horizontal, ten-digit marking strip, 14 marking strips for 140 connectors marked with:

0-9

1-10

11-20

21-30

31-40

Marking pen

#### Properties

Tabs per marking card

Spacing/Tab height

Material/Color

Temperature range (°C)

Wipe-proof after printing

Type	Cat.-No.	Qty.p.pck.
<b>BK 2,50/2,8</b>	3171.0	10
non printed		
<b>special print</b>	3180.0	10
<b>BK 2,50/2,8 FW</b> 0-9	2979.0	10
<b>BK 2,50/2,8 FW</b> 1-10	2980.0	10
<b>BK 2,50/2,8 FW</b> 11-20	2981.0	10
<b>BK 2,50/2,8 FW</b> 21-30	2982.0	10
<b>BK 2,50/2,8 FW</b> 31-40	2983.0	10
<b>BS-1</b>	2034.0	10

Type	Cat.-No.	Qty.p.pck.
<b>BK 2,54/2,8</b>	3172.0	10
non printed		
<b>special print</b>	3181.0	10
<b>BK 2,54/2,8 FW</b> 0-9	2984.0	10
<b>BK 2,54/2,8 FW</b> 1-10	2985.0	10
<b>BK 2,54/2,8 FW</b> 11-20	2986.0	10
<b>BK 2,54/2,8 FW</b> 21-30	2987.0	10
<b>BK 2,54/2,8 FW</b> 31-40	2988.0	10
<b>BS-1</b>	2034.0	10

140 pcs.

2,50 mm/2,8 mm

Polyester/white

40°C bis +120°C

DIN 30 646; VDE 0611: 1977-11

140 pcs.

2,54 mm/2,8 mm

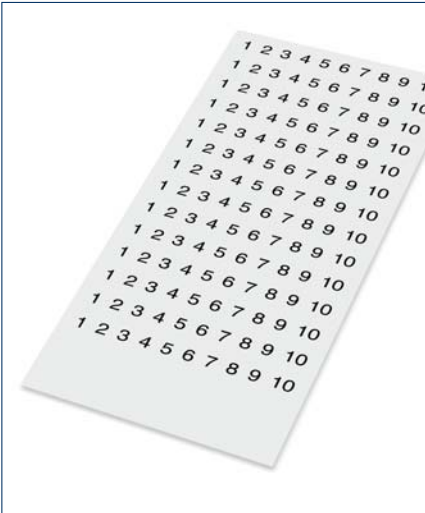
Polyester/white

-40°C bis +120°C

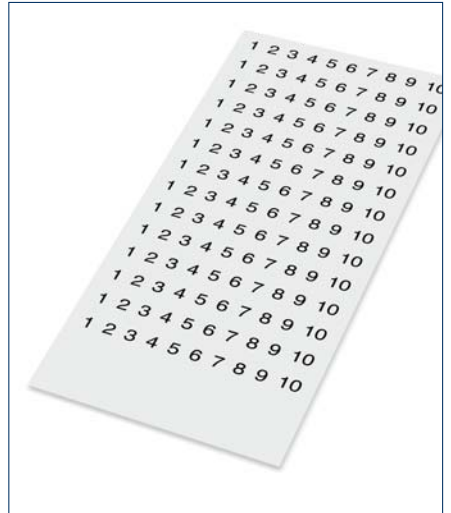
DIN 30 646; VDE 0611: 1977-11

### Marking Card BK

### BK 3,50/2,8



### BK 3,81/2,8



#### Component parts

Marking card, non printed, free spacing, including 14 prepunched marking strips.

Card, printed; continuous, horizontal, ten-digit marking strip, 14 marking strips for 140/120 connectors marked with:

0-9

1-10

11-20

21-30

31-40

Marking pen

#### Properties

Tabs per marking card

Spacing/Tab height

Material/Color

Temperature range (°C)

Wipe-proof after printing

Type	Cat.-No.	Qty.p.pck.
<b>BK 3,50/2,8</b>	3173.0	10
non printed		
<b>special print</b>	3182.0	10
<b>BK 3,50/2,8 FW</b> 0-9	3015.0	10
<b>BK 3,50/2,8 FW</b> 1-10	3016.0	10
<b>BK 3,50/2,8 FW</b> 11-20	3017.0	10
<b>BK 3,50/2,8 FW</b> 21-30	3018.0	10
<b>BK 3,50/2,8 FW</b> 31-40	3019.0	10
<b>BS-1</b>	2034.0	10

Type	Cat.-No.	Qty.p.pck.
<b>BK 3,81/2,8</b>	3174.0	10
non printed		
<b>special print</b>	3183.0	10
<b>BK 3,81/2,8 FW</b> 0-9	3032.0	10
<b>BK 3,81/2,8 FW</b> 1-10	3033.0	10
<b>BK 3,81/2,8 FW</b> 11-20	3034.0	10
<b>BK 3,81/2,8 FW</b> 21-30	3035.0	10
<b>BK 3,81/2,8 FW</b> 31-40	3036.0	10
<b>BS-1</b>	2034.0	10

140 pcs.

3,50 mm/2,8 mm

Polyester/white

-40°C bis +120°C

DIN 30 646; VDE 0611: 1977-11

140 pcs.

3,81 mm/2,8 mm

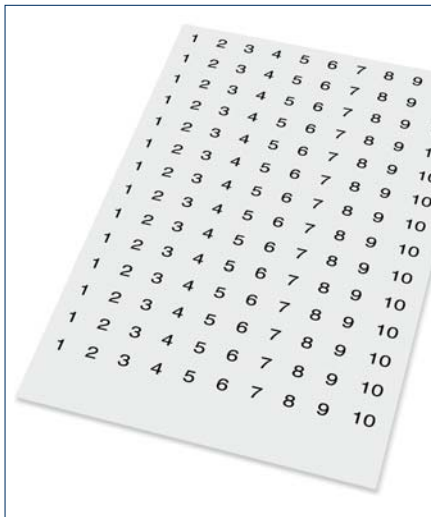
Polyester/white

-40°C bis +120°C

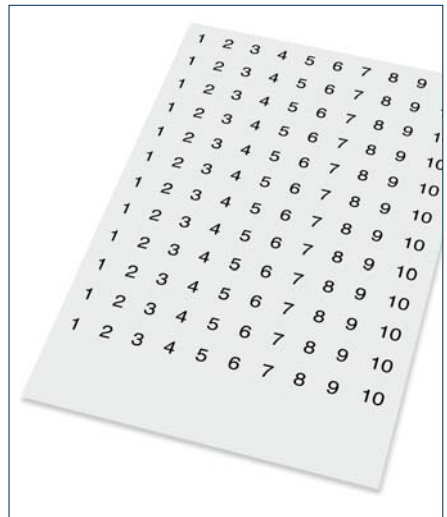
DIN 30 646; VDE 0611: 1977-11

**Marking Card BK**

**BK 5,08/2,8**



**BK 5,00/3,8**



**Component parts**

Marking Card, non printed, free spacing, including 12/14 prepunched marking strips.

Card, printed; continuous, horizontal, ten-digit marking strip, 14/12 marking strips for 140/120 connectors marked with:

0-9

1-10

11-20

21-30

31-40

Marking pen

**Properties**

Tabs per marking card

Spacing/Tab height

Material/Color

Temperature range (°C)

Wipe-proof after printing

Type	Cat.-No.	Qty.p.pck.
<b>BK 5,08/2,8</b>	3175.0	10
non printed		
<b>special print</b>	3184.0	10
<b>BK 5,08/2,8 FW</b> 0-9	3136.0	10
<b>BK 5,08/2,8 FW</b> 1-10	3137.0	10
<b>BK 5,08/2,8 FW</b> 11-20	3138.0	10
<b>BK 5,08/2,8 FW</b> 21-30	3139.0	10
<b>BK 5,08/2,8 FW</b> 31-40	3140.0	10
<b>BS-1</b>	2034.0	10

140 pcs.

5,08 mm/2,8 mm

Polyester/white

-40°C bis +120°C

DIN 30 646; VDE 0611: 1977-11

Type	Cat.-No.	Qty.p.pck.
<b>BK 5,00/3,8</b>	3176.0	10
non printed		
<b>special print</b>	3185.0	10
<b>BK 5,00/3,8 FW</b> 0-9	3141.0	10
<b>BK 5,00/3,8 FW</b> 1-10	3142.0	10
<b>BK 5,00/3,8 FW</b> 11-20	3143.0	10
<b>BK 5,00/3,8 FW</b> 21-30	3144.0	10
<b>BK 5,00/3,8 FW</b> 31-40	3145.0	10
<b>BS-1</b>	2034.0	10

120 pcs.

5,00 mm/3,8 mm

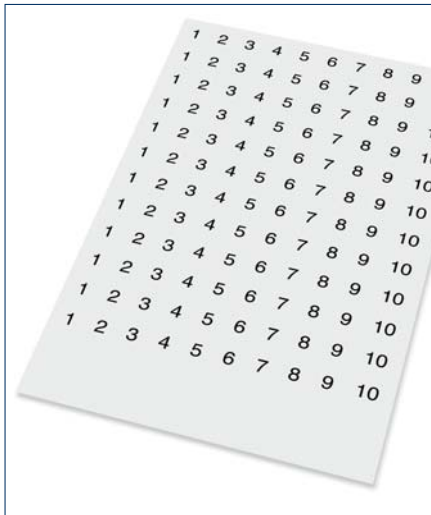
Polyester/white

-40°C bis +120°C

DIN 30 646; VDE 0611: 1977-11

**Marking Cards BK**

**BK 5,08/3,8**



**Component parts**

Marking card, non printed, free spacing, including 12 prepunched marking strips.

Card, printed; continuous, horizontal, ten-digit marking strip, 12 marking strips for 120 connectors marked with:

0-9

1-10

11-20

21-30

31-40

Marking pen

**Properties**

Tabs per marking card

Spacing/Tab height

Material/Color

Temperature range (°C)

Wipe-proof after printing

Type	Cat.-No.	Qty.p.pck.
<b>BK 5,08/3,8</b>	3177.0	10
non printed		
<b>special print</b>	3186.0	10
<b>BK 5,08/3,8 FW</b> 0-9	3146.0	10
<b>BK 5,08/3,8 FW</b> 1-10	3147.0	10
<b>BK 5,08/3,8 FW</b> 11-20	3148.0	10
<b>BK 5,08/3,8 FW</b> 21-30	3149.0	10
<b>BK 5,08/3,8 FW</b> 31-40	3150.0	10
<b>BS-1</b>	2034.0	10

120 pcs.

5,08 mm/3,8 mm

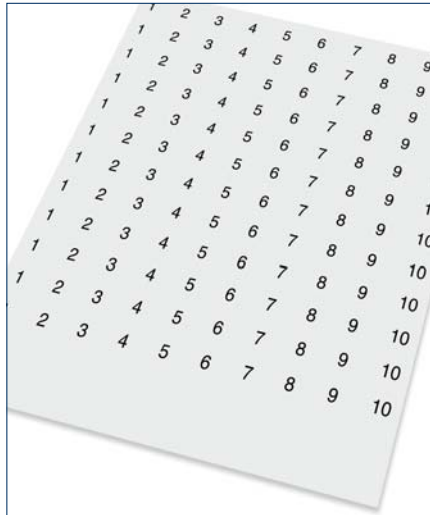
Polyester/white

-40°C bis +120°C

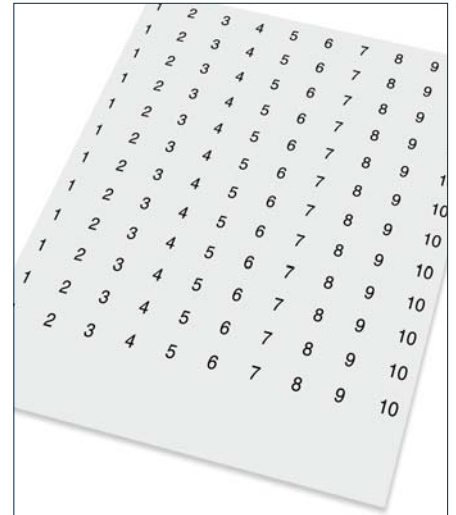
DIN 30 646; VDE 0611: 1977-11

### Marking Card BK

### BK 7,50/3,8



### BK 7,62/3,80



#### Component parts

Marking Card, non printed, free spacing, including 12 prepunched marking strips.

Card, printed; continuous, horizontal, ten-digit marking strip, 12 marking strips for 120 connectors marked with:

0-9

1-10

11-20

21-30

31-40

Marking pen

#### Properties

Tabs per marking card

Spacing/Tab height

Material/Color

Temperature range (°C)

Wipe-proof after printing

Type	Cat.-No.	Qty.p.pck.
<b>BK 7,50/3,8</b>	3178.0	10
non printed		
<b>special print</b>	3187.0	10
<b>BK 7,50/3,8 FW</b> 0-9	3151.0	10
<b>BK 7,50/3,8 FW</b> 1-10	3152.0	10
<b>BK 7,50/3,8 FW</b> 11-20	3153.0	10
<b>BK 7,50/3,8 FW</b> 21-30	3154.0	10
<b>BK 7,50/3,8 FW</b> 31-40	3155.0	10
<b>BS-1</b>	2034.0	10

120 pcs.

7,50 mm/3,8 mm

Polyester/white

-40°C bis +120°C

DIN 30 646; VDE 0611: 1977-11

Type	Cat.-No.	Qty.p.pck.
<b>BK 7,62/3,8</b>	3179.0	10
non printed		
<b>special print</b>	3188.0	10
<b>BK 7,62/3,8 FW</b> 0-9	3156.0	10
<b>BK 7,62/3,8 FW</b> 1-10	3157.0	10
<b>BK 7,62/3,8 FW</b> 11-20	3158.0	10
<b>BK 7,62/3,8 FW</b> 21-30	3159.0	10
<b>BK 7,62/3,8 FW</b> 31-40	3160.0	10
<b>BS-1</b>	2034.0	10

120 pcs.

7,62 mm/3,8 mm

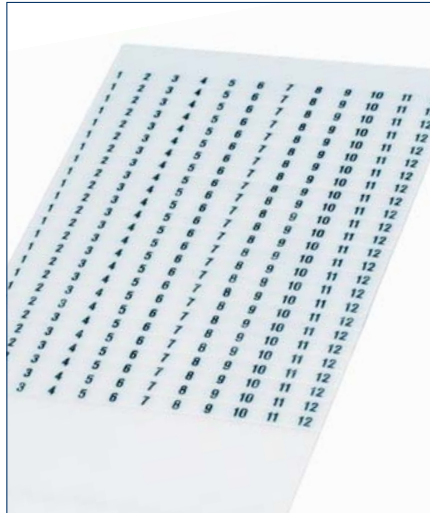
Polyester/white

-40°C bis +120°C

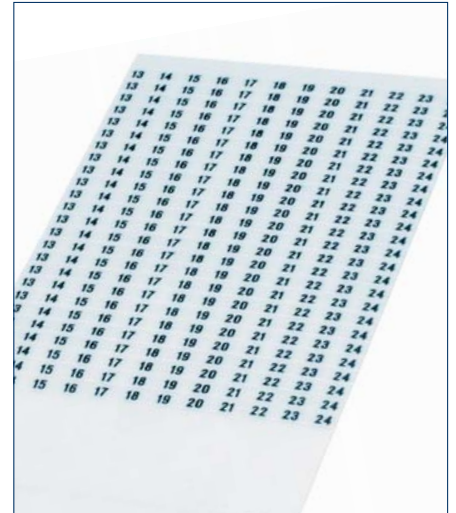
DIN 30 646; VDE 0611: 1977-11

### Marking Card BK

### BK 1-12/5,08/3,3



### BK 13-24/5,08/3,3



#### Component parts

Marking card, non printed, free spacing, including 12 prepunched marking strips. Card, printed; continuous, horizontal, ten-digit marking strip, 25 marking strips for 300 connectors.

Type	Cat.-No.	Qty. pck.
<b>BK 1-12/5,08</b>	2960.0	10

Type	Cat.-No.	Qty.p.pck.
<b>BK 13-24/5,08</b>	2961.0	10

#### Properties

Tabs per marking card

Spacing/Tab height

Material/Color

Temperature range (°C)

Wipe-proof after printing

300 pcs.

5,08 mm/3,3 mm

Polyester/white

-40°C bis +120°C

DIN 30 646; VDE 0611: 1977-11

300 pcs.

5,08 mm/3,3 mm

Polyester/white

-40°C bis +120°C

DIN 30 646; VDE 0611: 1977-11

## Rail mounting system RS-SP

*Shaped extrusion profiles can be used as basis plates for printed circuit boards.*

The **CONTA-CLIP** rail mounting system **RS-SP** is designed to enable you to produce quite a number of rail-mountable electronic connections by individually adapting the shaped profiles to the according printed board lengths.

The **RS-SP** profiles **RS-SP1** and **RS-SP2** have 2 connector levels and are delivered in 2 m lengths and are easy to cut into the required sections by means of a saw. We also offer profile lengths according to your specifications. Cutting profiles into sections without rigid subdivision allows profile enclosures to be individually adapted to electronics.

After cutting the shaped profiles into sections according to the specified modular lengths and/or space, the required modules can be assembled from the respective cover plates and foot elements.

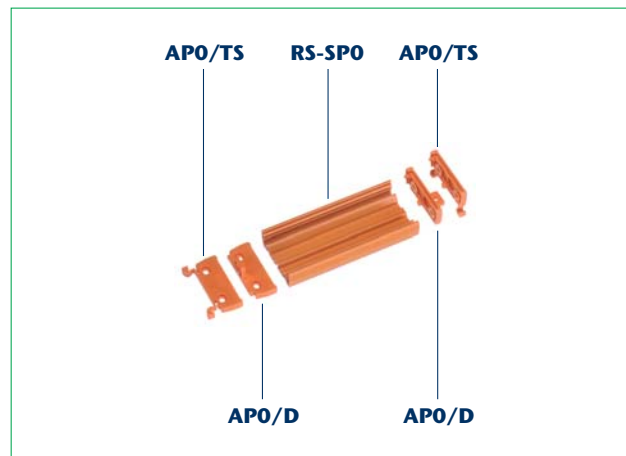
Three separate profile versions (**RS-SP0**, **RS-SP1** and **RS-SP2**) are available for the various widths of printed circuit boards.

Transparent cover profiles **AD1** (low version) and **AD2** (high version) are available in 1 m lengths for the **RS-SP1** system. Cover plates **AP/AD1** (low version) and **AP/AD2** (high version) are used for mounting with lock screw **BS-AD** serving to fit them to the cover profile. The labelling of versions **RS-SP1** and **RS-SP2** is effected by means of the quick marking system **SB** in specially provided marking grooves (see **CONTA-CONNECT** catalogue).

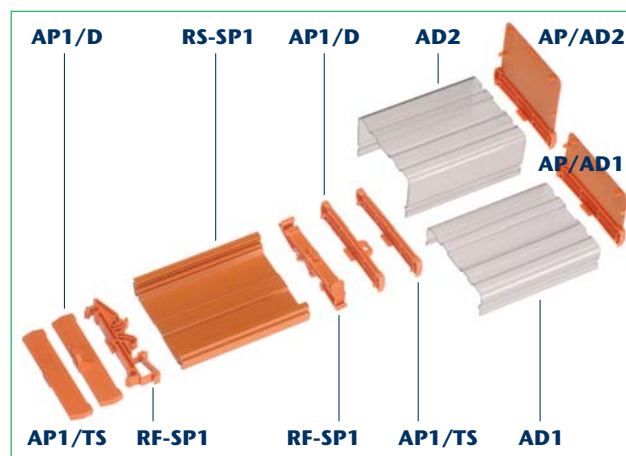
Taking into account applicable specifications and requirements, a **RS-SP profile** enclosure consists of the following components:

- Shaped profile **RS-SP** (versions **RS-SP0**; **RS-SP1**; **RS-SP2**)
- Cover plate **AP** in various versions:
  - Mounting rail installation **AP/TS** (**RS-SP0**) on mounting rail **TS 35/RS-SP1** and **RS-SP 2** on mounting rail **TS32/TS 35**.
  - Direct installation **AP/D**
  - Low version **AP/AD1** for fastening of transp. cover **AD1**
  - High version **AP/AD2** for fastening of transp. cover **AD2**
- Rail mounting **RF** for installation of mounting rail of profiles **RS-SP1** and **RS-SP2** on mounting rail **TS32/TS35**
- Transparent shrouding profile **AD**
  - low version **AD1**
  - high version **AD2**
- Lock screw **BS-AD** for locking of shrouding profiles **AD1** and **AD2**
- Lock screw **BS-RS** for fastening of cover plates **AP** for Types **RS-SP0** and **RS-SP2**

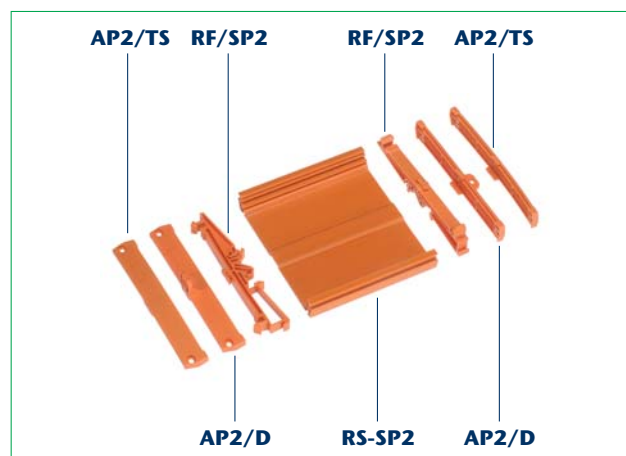
Standard rail mounting system **CONTA-CON RS-SP** colour is orange. Special colours are available on request.



**RS-SP0**

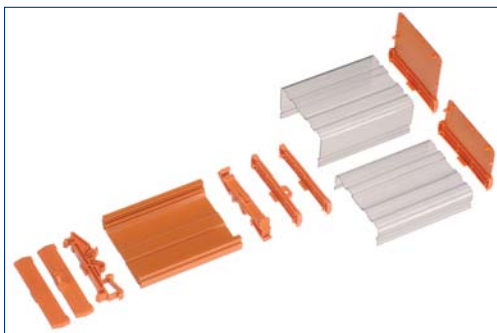


**RS-SP1**



**RS-SP2**

**Rail mouting system RS-SP**
**RS-SP0**

**RS-SP1**

**Component parts**

	Type	Cat.-No.	Qty. p. pck.
Shaped profile	<b>RS-SP0 orange</b>	5675.3	1
Cover plate/mouting rail installation	<b>AP0/TS orange</b>	3133.3	20
Cover plate/ direct installation	<b>AP0/D orange</b>	3134.3	20
Cover plate for AD 1	–	–	–
Cover plate for AD 2	–	–	–
Lock Screw BS-RS	<b>BS/RS</b>	4560.0	100
Shrouding cover AD 1	–	–	–
Shrouding cover AD 2	–	–	–
Lock screw for shrouding cover BS-AD	–	–	–
Catch foot for TS 32/35	–	–	–

	Type	Cat.-No.	Qty. p. pck.
Shaped profile	<b>RS-SP1 orange</b>	5680.3	1
Cover plate/mouting rail installation	<b>AP1/TS orange</b>	5681.3	20
Cover plate/ direct installation	<b>AP1/D orange</b>	5682.3	20
Cover plate for AD 1	<b>AP/AD1</b>	5891.0	20
Cover plate for AD 2	<b>AP/AD2</b>	5895.0	20
Lock Screw BS-RS	–	–	–
Shrouding cover AD 1	<b>AD1</b>	5893.0	1
Shrouding cover AD 2	<b>AD2</b>	5894.0	1
Lock screw for shrouding cover BS-AD	<b>BS/AD</b>	2385.0	100
Catch foot for TS 32/35	<b>RF/SP1 orange</b>	5683.0	20

**Dimensions**

	mm	thickness mm
P.C. board top level	42,5/–	1,5 + 0,2
P.C. board bottom level	–	–
Total width	46,5	–
Length	2000	–
Height on TS 32	–	–
Height on TS 35	27	–
Height direct installation	19,0	–
Height AD 1	–	–
Height AD 2	–	–

**Dimensions**

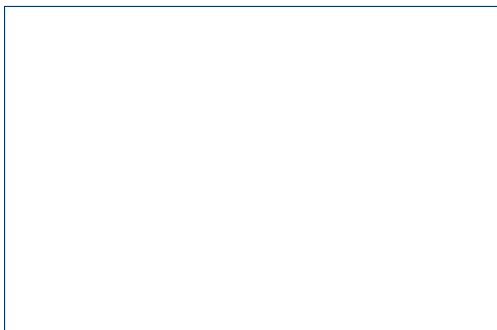
	mm	thickness mm
P.C. board top level	73 + 0,4 ./. 0,1	1,5 + 0,2
P.C. board bottom level	68 + 0,4 ./. 0,1	1,5 + 0,2
Total width	84	–
Length	2000	–
Height on TS 32	43	–
Height on TS 35	40	–
Height direct installation	17	–
Height AD 1	25	–
Height AD 2	45	–

**Materials**

Material	RS-SP = PVC AP/RF = PA 6.6-V2
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**Materials**

Material	RS-SP = PVC AP/RF = PA 6.6-V2
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**Rail mouting system RS-SP**
**RS-SP2**

**Component parts**

	Type	Cat.-No.	Qty. p. pck.
Shaped profile	<b>RS-SP2 orange</b>	5690.3	1
Cover plate/mouting rail installation	<b>AP2/TS orange</b>	5691.3	20
Cover plate/ direct installation	<b>AP2/D orange</b>	5692.3	20
Cover plate for AD 1	–	–	–
Cover plate for AD 2	–	–	–
Lock Screw BS-RS	<b>BS/RS</b>	4560.0	100
Shrouding cover AD 1	–	–	–
Shrouding cover AD 2	–	–	–
Lock screw for shrouding cover BS-AD	–	–	–
Catch foot for TS 32/35	<b>RF/SP2 orange</b>	5693.3	20

	Type	Cat.-No.	Qty. p. pck.
Shaped profile	–	–	–
Cover plate/mouting rail installation	–	–	–
Cover plate/ direct installation	–	–	–
Cover plate for AD 1	–	–	–
Cover plate for AD 2	–	–	–
Lock Screw BS-RS	–	–	–
Shrouding cover AD 1	–	–	–
Shrouding cover AD 2	–	–	–
Lock screw for shrouding cover BS-AD	–	–	–
Catch foot for TS 32/35	–	–	–

**Dimensions**

	mm	thickness mm
P.C. board top level	108,5 + 0,5 ./. 0,3	1,5 + 0,2
P.C. board bottom level	100 + 0,5 ./. 0,1	1,5 + 0,2
Total width	119	–
Length	2000	–
Height on TS 32	43	–
Height on TS 35	40	–
Height direct installation	17	–
Height AD 1	–	–
Height AD 2	–	–

	mm	thickness mm
P.C. board top level	–	–
P.C. board bottom level	–	–
Total width	–	–
Length	–	–
Height on TS 32	–	–
Height on TS 35	–	–
Height direct installation	–	–
Height AD 1	–	–
Height AD 2	–	–

**Materials**

Material	RS-SP = PVC AP/RF = PA 6.6-V2
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Material	–
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